

GenCore version 4.5  
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OM nucleic - nucleic search, using sw model

Run on: April 19, 2002, 21:57:21 ; Search time 2544.74 Seconds  
(without alignments)  
11584.861 Million cell updates/sec

Title: US-09-925-139-3  
Perfect score: 1787  
Sequence: 1 gtgaatctctgggcccagga.....ggcattaaagtgtgtatcc 1787

Scoring table: OLIGO\_NUC  
Gapop 60.0 , Gapext 60.0

Searched: 1472140 seqs, 8248589755 residues

Word size : 0

Total number of hits satisfying chosen parameters: 541028

Minimum DB seq length: 0  
Maximum DB seq length: 50

Post-processing: Listing first 45 summaries

Database : GenEmbl.\*

- 1: gb.ba.\*
- 2: gb.htg.\*
- 3: gb.in.\*
- 4: gb.om.\*
- 5: gb.ov.\*
- 6: gb.pat.\*
- 7: gb.ph.\*
- 8: gb.pl.\*
- 9: gb.pr.\*
- 10: gb.ro.\*
- 11: gb.sts.\*
- 12: gb.sy.\*
- 13: gb.un.\*
- 14: gb.vi.\*
- 15: em.ba.\*
- 16: em.fun.\*
- 17: em.hum.\*
- 18: em.in.\*
- 19: em.om.\*
- 20: em.or.\*
- 21: em.ov.\*
- 22: em.pat.\*
- 23: em.ph.\*
- 24: em.pl.\*
- 25: em.ro.\*
- 26: em.sts.\*
- 27: em.sy.\*
- 28: em.un.\*
- 29: em.vi.\*
- 30: em.htgo\_hum.\*
- 31: em.htgo\_inv.\*
- 32: em.htgo\_rod.\*
- 33: em.htg\_hum.\*
- 34: em.htg\_inv.\*
- 35: em.htg\_rod.\*
- 36: em.htg\_other.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

8

Result No.	Score	Query Match	Length	DB	ID	Description
1	46	2.6	46	6	AR032477	AR032477 Sequence
2	46	2.6	46	6	I29217	I29217 Sequence
3	46	2.6	46	6	I90891	I90891 Sequence
4	21	1.2	24	6	AX020418	AX020418 Sequence
5	16	0.9	20	6	AR042917	AR042917 Sequence
6	16	0.9	20	6	AR073289	AR073289 Sequence
7	16	0.9	36	6	AX112428	AX112428 Sequence
8	15	0.8	22	4	D062155P01	L78441 Canis fami
9	15	0.8	22	6	ARI30748	ARI30748 Sequence
10	15	0.8	25	6	E04451	E04451 DNA encodin
11	15	0.8	27	6	ARI09648	ARI09648 Sequence
12	15	0.8	32	6	AX112429	AX112429 Sequence
13	15	0.8	41	6	A48824	A48824 Sequence
14	14	0.8	20	6	AX167117	AX167117 Sequence
15	14	0.8	21	6	AR069484	AR069484 Sequence
16	14	0.8	22	6	AX146446	AX146446 Sequence
17	14	0.8	22	6	AX146447	AX146447 Sequence
18	14	0.8	23	6	A84872	A84872 Sequence
19	14	0.8	23	6	AX077382	AX077382 Sequence
20	14	0.8	23	6	AX148006	AX148006 Sequence
21	14	0.8	25	6	ARI30317	ARI30317 Sequence
22	14	0.8	25	6	ARI30321	ARI30321 Sequence
23	14	0.8	26	6	AR090227	AR090227 Sequence
24	14	0.8	26	6	AR091212	AR091212 Sequence
25	14	0.8	26	6	AX037841	AX037841 Sequence
26	14	0.8	27	6	A91913	A91913 Sequence
27	14	0.8	27	6	AR026695	AR026695 Sequence
28	14	0.8	27	6	AR026699	AR026699 Sequence
29	14	0.8	27	6	AR026713	AR026713 Sequence
30	14	0.8	27	6	AR026714	AR026714 Sequence
31	14	0.8	27	6	AR029305	AR029305 Sequence
32	14	0.8	27	6	AR049121	AR049121 Sequence
33	14	0.8	27	6	AR049125	AR049125 Sequence
34	14	0.8	27	6	AR049139	AR049139 Sequence
35	14	0.8	27	6	AR049140	AR049140 Sequence
36	14	0.8	27	6	AR065379	AR065379 Sequence
37	14	0.8	27	6	AR065383	AR065383 Sequence
38	14	0.8	27	6	AR065397	AR065397 Sequence
39	14	0.8	27	6	AR065398	AR065398 Sequence
40	14	0.8	28	6	I22030	I22030 Sequence
41	14	0.8	31	6	AX167972	AX167972 Sequence
42	14	0.8	32	6	AX107235	AX107235 Sequence
43	14	0.8	32	6	AX107358	AX107358 Sequence
44	14	0.8	33	6	AR014162	AR014162 Sequence
45	14	0.8	33	6	AX067826	AX067826 Sequence

ALIGNMENTS

RESULT 1	AR032477	AR032477	46 bp	DNA	PAT	29-SEP-1999
LOCUS	Sequence	89	from patent	US 5869241.		
DEFINITION	AR032477					
ACCESSION	AR032477.1	GI:5948082				
VERSION						
KEYWORDS	Unknown.					
SOURCE	Unknown.					
ORGANISM	Unclassified.					
REFERENCE	1 (bases 1 to 46)					
AUTHORS	Edwards,C.A., Cantor,C.R., Andrews,B.M., Turin,L.M. and Fry,K.E.					
TITLE	Method of determining DNA sequence preference of a DNA-binding molecule					
JOURNAL	Patent: US 5869241-A 89 09-FEB-1999;					
FEATURES	Location/Qualifiers					
source	1..46					
BASE COUNT	9 a 11 c 19 g 7 t					
ORIGIN						

Qy	53	gtggggctggcgacatacatatcacgggtccaggctgaacgacgc 98	1	GTGGGGCTGGCGGACATACATATACGGGCTCCAGGCTGAACGGC 46	Query Match Best Local Similarity 100.0%; Pred. No. 6.3e-14; Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	2	I29217	I29217	46 bp	DNA	PAT	06-FEB-1997	LOCUS DEFINITION ACCESSION VERSION KEYWORDS ORGANISM REFERENCE AUTHORS TITLE JOURNAL FEATURES BASE COUNT ORIGIN	Sequence 89 from patent US 5578444. I29217 I29217.1 GI:1820008 Unknown. Unclassified. 1 (bases 1 to 46) Edwards,C.A., Cantor,C.R., Andrews,B.M., Turin,L.M. and Fry,K.E. Sequence-directed DNA-binding molecules compositions and methods Patent: US 5578444-A 89 26-NOV-1996; Location/Qualifiers 1..46 /organism="unknown" 9 a 11 c 19 g 7 t	2.6%; Score 46; DB 6; Length 46; Best Local Similarity 100.0%; Pred. No. 6.3e-14; Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	Qy	53	gtggggctggcgacatacatatcacgggtccaggctgaacgacgc 98	1	GTGGGGCTGGCGGACATACATATACGGGCTCCAGGCTGAACGGC 46	Query Match Best Local Similarity 100.0%; Pred. No. 6.3e-14; Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	3	I90891	I90891	46 bp	DNA	PAT	01-DEC-1998	LOCUS DEFINITION ACCESSION VERSION KEYWORDS ORGANISM REFERENCE AUTHORS TITLE JOURNAL FEATURES BASE COUNT ORIGIN	Sequence 89 from patent US 5726014. I90891 I90891.1 GI:3935361 Unknown. Unclassified. 1 (bases 1 to 46) Edwards,C.A., Cantor,C.R., Andrews,B.M. and Turin,L.M. Screening assay for the detection of DNA-binding molecules Patent: US 5726014-A 89 10-MAR-1998; Location/Qualifiers 1..46 /organism="unknown" 9 a 11 c 19 g 7 t	2.6%; Score 46; DB 6; Length 46; Best Local Similarity 100.0%; Pred. No. 6.3e-14; Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	Qy	53	gtggggctggcgacatacatatcacgggtccaggctgaacgacgc 98	1	GTGGGGCTGGCGGACATACATATACGGGCTCCAGGCTGAACGGC 46	Query Match Best Local Similarity 100.0%; Pred. No. 6.3e-14; Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	4	AX020418	AX020418	24 bp	DNA	PAT	07-SEP-2000	LOCUS DEFINITION ACCESSION VERSION KEYWORDS ORGANISM REFERENCE AUTHORS TITLE JOURNAL FEATURES BASE COUNT ORIGIN	Sequence 3 from Patent WO935286. AX020418 AX020418.1 GI:1004134 synthetic construct. synthetic construct. artificial sequence. 1 (bases 1 to 24) Kastelein,J.J. and Kuivenhoven,J.A. Assay for predicting the angiographic response to lipid-lowering therapy in patients Patent: WO 935286-A 3 15-JUL-1999; KASTELEIN JOHANNES JACOBUS PIE (CA); AZ UNIV AMSTERDAM (NL); KUIVENHOVEN JAN ALBERT (US) Location/Qualifiers 1..24 /organism="synthetic construct" /db_xref="taxon:32630" /note="primer" 6 a 8 c 3 g 7 t	1.2%; Score 21; DB 6; Length 24; Best Local Similarity 100.0%; Pred. No. 9.3; Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	Qy	343	agtcagatggtgtgcacaa 363	1	AGTCAAGTATGGGTGCACAA 4	Query Match Best Local Similarity 100.0%; Pred. No. 9.3; Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	5	AR042917	AR042917	20 bp	DNA	PAT	29-SEP-1999	LOCUS DEFINITION ACCESSION VERSION KEYWORDS ORGANISM REFERENCE AUTHORS TITLE JOURNAL FEATURES BASE COUNT ORIGIN	Sequence 3 from patent US 5814308. AR042917 AR042917.1 GI:5963925 Unknown. Unclassified. 1 (bases 1 to 20) Zhang,K. Methods for the treatment of gastrointestinal tract disorders Patent: US 5814308-A 3 29-SEP-1998; Location/Qualifiers 1..20 /organism="unknown" 6 a 4 c 5 g 5 t	0.9%; Score 16; DB 6; Length 20; Best Local Similarity 100.0%; Pred. No. 6.4e+03; Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	Qy	714	tcctgaaggagacagat 729	1	TCCTGAAGGAGACAGAT 17	Query Match Best Local Similarity 100.0%; Pred. No. 6.4e+03; Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	6	AR073289	AR073289	20 bp	DNA	PAT	28-AUG-2000	LOCUS DEFINITION ACCESSION VERSION KEYWORDS ORGANISM REFERENCE AUTHORS TITLE JOURNAL FEATURES BASE COUNT ORIGIN	Sequence 3 from patent US 5948892. AR073289 AR073289.1 GI:10000052 Unknown. Unclassified.
----	----	--	---	---	--	---	--------	--------	-------	-----	-----	-------------	---	--	---	----	----	--	---	---	--	---	--------	--------	-------	-----	-----	-------------	---	--	---	----	----	--	---	---	--	---	----------	----------	-------	-----	-----	-------------	---	--	---	----	-----	-------------------------	---	------------------------	--	---	----------	----------	-------	-----	-----	-------------	---	---	---	----	-----	-----------------------	---	----------------------	--	---	----------	----------	-------	-----	-----	-------------	---	---

PF 24-MAY-1991 JP 1991149718

PI MATSUDA ICHIRO, SHIMADA KAZUNORI, MATSUURA TOSHINOBU PC  
C12Q1/68,A61B10/00,A61B10/00,C07H21/04,C12N15/10, PC  
C12N15/54//C12N9/10;

CC strandedness: Single;  
CC topology: Linear;  
CC hypothetical: No;  
CC anti-sense: No;  
CC Location/Qualifiers

FEATURES  
source

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ORIGIN

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Best Local Similarity 100.0%; Pred. No. 2.3e+04;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 687 attatcatccttca 701

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Db 4 ATTTCATCTCCTCA 18

RESULT 11

ARI09648 27 bp DNA PAT 14-FEB-2001

LOCUS Sequence 72 from patent US 6114139.

DEFINITION ARI09648

ACCESSION ARI09648

VERSION ARI09648.1 GI:12825924

KEYWORDS

SOURCE Unknown.

ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 27)

AUTHORS Hinuma,S., Hosoya,M., Fujii,R., Ohtaki,T., Fukusumi,S. and Ohgi,K.

TITLE G-protein coupled receptor protein and a DNA encoding the receptor

JOURNAL Patent: US 6114139-A 72 05-SEP-2000;

FEATURES Location/Qualifiers

1..27

source /organism="unknown"

BASE COUNT 3 a 5 c 13 g 6 t

ORIGIN

Query Match 0.8%; Score 15; DB 6; Length 27;  
Best Local Similarity 100.0%; Pred. No. 2.3e+04;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 162 tgcgtggcgaatgcc 176

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Db 9 TGCTGGCAATGCC 23

RESULT 12

AX112429/c 32 bp DNA PAT 01-MAY-2001

LOCUS Sequence 77 from Patent WO0127857.

DEFINITION AX112429

ACCESSION AX112429

VERSION AX112429.1 GI:13939188

KEYWORDS

SOURCE synthetic construct.

ORGANISM artificial sequence.

REFERENCE 1 (bases 1 to 32)

AUTHORS Braun,A., Koester,H., van den Boom,D., Ping,Y., Rodi,C., He,L.,

Chiu,N. and Jurinke,C.

TITLE Methods for generating databases and databases for identifying

JOURNAL Polymorphic genetic markers

Patent: WO 0127857-A 77 19-APR-2001;

Sequenom, Inc. (US)

FEATURES Location/Qualifiers

1..32

source

/organism="synthetic construct"  
/db\_xref="taxon:32630"

/note="Oligonucleotide primer"

BASE COUNT 7 a 6 c 12 g 7 t

ORIGIN

Query Match 0.8%; Score 15; DB 6; Length 32;  
Best Local Similarity 100.0%; Pred. No. 2.3e+04;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1396 ccagagcttcttca 1410

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Db 32 CCAGAGCTTCTGCA 18

RESULT 13

A48824 41 bp DNA PAT 07-MAR-1997

LOCUS Sequence 16 from Patent EP0704527.

DEFINITION A48824

ACCESSION A48824

VERSION A48824.1 GI:2302486

KEYWORDS

SOURCE unidentified.

ORGANISM unclassified.

REFERENCE 1 (bases 1 to 41)

AUTHORS Mestric,S., Punt,P.J., Valinger,R., Van and Den,H.C.

TITLE DNA sequences encoding biosynthetic insulin precursors and process

JOURNAL for preparation of insulin

Patent: EP 0704527-A 16 03-APR-1996;

COMMENT PLIVA PHARM & CHEM WORKS (YU)

Other publication CN 1126761 960717

Other publication CA 2155451 960206

Other publication SK 97195 960207

Other publication SI 9500250 960229

Other publication BG 99844 960229

Other publication CZ 9501999 960214

Other publication PL 309882 960219.

FEATURES Location/Qualifiers

1..41

source /organism="unidentified"

BASE COUNT 5 a 7 c 20 g 9 t

ORIGIN

Query Match 0.8%; Score 15; DB 6; Length 41;  
Best Local Similarity 100.0%; Pred. No. 2.2e+04;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 396 gccagtgagctgg 410

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Db 17 GCCAGTGAGCTGG 31

RESULT 14

AX167117/c 20 bp DNA PAT 03-JUL-2001

LOCUS Sequence 4 from Patent WO0144455.

DEFINITION AX167117

ACCESSION AX167117

VERSION AX167117.1 GI:14596605

KEYWORDS

SOURCE human.

ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 20)

AUTHORS Berli,R.

TITLE Antisense oligonucleotides

JOURNAL Patent: WO 0144455-A 4 21-JUN-2001;

Astrazeneca AB (SE)

FEATURES Location/Qualifiers

1..20

source

Location/Qualifiers

1..20

source

Location/Qualifiers

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source 1..20
/organism="Homo sapiens"
/db_xref="taxon:9606"
/note="Antisense oligonucleotide"
BASE COUNT 5 a 8 g 0 t
ORIGIN
|||||
154 cctggccctgctgg 167
20 CCTGGCCCTGCTGG 7

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Best Local Similarity 100.0%; Pred. No. 8.6e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 154 cctggccctgctgg 167
Db 20 CCTGGCCCTGCTGG 7

RESULT 15
LOCUS AR069484 21 bp DNA PAT 18-FEB-2000
DEFINITION Sequence 21 from patent US 5891666.
ACCESSION AR069484
VERSION AR069484.1 GI:7220372
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 21)
AUTHORS Matsuyama,T. and Grossman,A.
TITLE Genes encoding LSRF polypeptides
JOURNAL Patent: US 5891666-A 21 06-APR-1999;
FEATURES
source
1..21
/organism="unknown"
BASE COUNT 3 a 9 c 5 g 4 t
ORIGIN
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1381 cagctccgagtgcca 1394
7 CAGCTCCGAGTGCCA 20

Query Match 0.8%; Score 14; DB 6; Length 21;
Best Local Similarity 100.0%; Pred. No. 8.6e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1381 cagctccgagtgcca 1394
Db 7 CAGCTCCGAGTGCCA 20

RESULT 16
LOCUS AX146446 22 bp DNA PAT 31-MAY-2001
DEFINITION Sequence 27 from Patent WO0134647.
ACCESSION AX146446
VERSION AX146446.1 GI:14284864
KEYWORDS
SOURCE Cow.
ORGANISM Bos taurus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
Bovidae; Bovinae; Bos.
REFERENCE 1 (bases 1 to 22)
AUTHORS Bell,M.P., Neff,T.B., Polarek,J.W. and Seeley,T.W.
TITLE Animal collagens and gelatins
JOURNAL Patent: WO 0134647-A 27 17-MAY-2001;
FIBROGEN, INC. (US)
FEATURES
source
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/organism="Bos taurus"
/db_xref="taxon:9913"
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19 TGCTGCAGATGGAC 6

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Best Local Similarity 100.0%; Pred. No. 8.6e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 19 TGCTGCAGATGGAC 6

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/organism="Homo sapiens"
/db_xref="taxon:9606"
/note="Antisense oligonucleotide"
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154 cctggccctgctgg 167
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Best Local Similarity 100.0%; Pred. No. 8.6e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 154 cctggccctgctgg 167
Db 20 CCTGGCCCTGCTGG 15

RESULT 17
LOCUS AX146447/c 22 bp DNA PAT 31-MAY-2001
DEFINITION Sequence 28 from Patent WO0134647.
ACCESSION AX146447
VERSION AX146447.1 GI:14284865
KEYWORDS
SOURCE Cow.
ORGANISM Bos taurus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
Bovidae; Bovinae; Bos.
REFERENCE 1 (bases 1 to 22)
AUTHORS Bell,M.P., Neff,T.B., Polarek,J.W. and Seeley,T.W.
TITLE Animal collagens and gelatins
JOURNAL Patent: WO 0134647-A 28 17-MAY-2001;
FIBROGEN, INC. (US)
FEATURES
source
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/organism="Bos taurus"
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BASE COUNT 4 a 5 c 10 g 3 t
ORIGIN
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154 cctggccctgctgg 167
21 COTGGCCCTGCTGG 8

Query Match 0.8%; Score 14; DB 6; Length 22;
Best Local Similarity 100.0%; Pred. No. 8.6e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 154 cctggccctgctgg 167
Db 21 COTGGCCCTGCTGG 8

RESULT 18
LOCUS AB4872/c 23 bp DNA PAT 21-JAN-2000
DEFINITION Sequence 21 from Patent WO9844106.
ACCESSION AB4872
VERSION AB4872.1 GI:6733720
KEYWORDS
SOURCE unidentified.
ORGANISM unidentified.
REFERENCE 1 (bases 1 to 23)
AUTHORS Waeber,G. and Bonny,C.
TITLE TRANSCRIPTION FACTOR ISLET-BRAIN 1 (IB1)
JOURNAL Patent: WO 9844106-A 21 08-OCT-1998;
WAEBER GERARD (CH); NICOD PASCAL (CH)
FEATURES
source
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/organism="unidentified"
/db_xref="taxon:32644"
BASE COUNT 5 a 8 c 4 g 6 t
ORIGIN
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1548 tgctgcagatggac 1561
19 TGCTGCAGATGGAC 6

Query Match 0.8%; Score 14; DB 6; Length 23;
Best Local Similarity 100.0%; Pred. No. 8.6e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1548 tgctgcagatggac 1561
Db 19 TGCTGCAGATGGAC 6
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RESULT 19  
AX077382/c  
LOCUS AX077382 23 bp DNA PAT 22-FEB-2001  
DEFINITION Sequence 34 from Patent.WO0105952.  
ACCESSION AX077382  
VERSION AX077382.1 GI:13121937  
SOURCE synthetic construct.  
ORGANISM synthetic construct.  
REFERENCE 1 (bases 1 to 23)  
AUTHORS van der Bleezen,E.A. and Jones,J.D.  
TITLE Rela/spot homologues from plant  
JOURNAL Patent: WO 0105952-A 34 25-JAN-2001;  
FEATURES Location/Qualifiers  
source 1..23  
/organism="synthetic construct"  
/db\_xref="taxon:32630"  
/note="Primer"  
BASE COUNT 5 a 6 c 8 g 4 t  
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Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
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Db 14 CCTCCTACCTGGAG 1  
  
RESULT 20  
AX148006/c  
LOCUS AX148006 23 bp DNA PAT 08-JUN-2001  
DEFINITION Sequence 6 from Patent WO0134848.  
ACCESSION AX148006  
VERSION AX148006.1 GI:14346977  
KEYWORDS synthetic construct.  
SOURCE synthetic construct.  
ORGANISM artificial sequence.  
REFERENCE 1 (bases 1 to 23)  
AUTHORS Brown,B.A., Kilpatrick,D.R., Pallansch,M.A. and Oberste,M.S.  
TITLE Serotype-specific identification of enterovirus 71 by rt-pcr  
JOURNAL Patent: WO 0134848-A 6 17-MAY-2001;  
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ARI30317/c  
LOCUS ARI30317 25 bp DNA PAT 16-MAY-2001  
DEFINITION Sequence 27 from patent US 6187913.  
ACCESSION ARI30317  
VERSION ARI30317.1 GI:14118214  
KEYWORDS

SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 25)  
AUTHORS Blumenfeld,M. and Merenkova,I.  
TITLE Covalently crosslinked oligonucleotides, preparation method and  
synthon which is of use in the method  
JOURNAL Patent: US 6187913-A 27 13-FEB-2001;  
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Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1527 tcactcgagatggc 1540  
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Db 14 TCACTCGAGATGGC 1  
  
RESULT 22  
ARI30321/c  
LOCUS ARI30321 25 bp DNA PAT 16-MAY-2001  
DEFINITION Sequence 31 from patent US 6187913.  
ACCESSION ARI30321  
VERSION ARI30321.1 GI:14118218  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 25)  
AUTHORS Blumenfeld,M. and Merenkova,I.  
TITLE Covalently crosslinked oligonucleotides, preparation method and  
synthon which is of use in the method  
JOURNAL Patent: US 6187913-A 31 13-FEB-2001;  
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BASE COUNT 6 a 7 c 7 g 5 t  
ORIGIN  
  
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Best Local Similarity 100.0%; Pred. No. 8.5e+04;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1527 tcactcgagatggc 1540  
|||||  
Db 14 TCACTCGAGATGGC 1  
  
RESULT 23  
AR090227/c  
LOCUS AR090227 26 bp DNA PAT 07-SEP-2000  
DEFINITION Sequence 347 from patent US 5994076.  
ACCESSION AR090227  
VERSION AR090227.1 GI:10016982  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 26)  
AUTHORS Chenchik,A., Jekhadze,G. and Bibilashvili,I.R.  
TITLE Methods of assaying differential expression  
JOURNAL Patent: US 5994076-A 347 30-NOV-1999;  
FEATURES Location/Qualifiers  
source 1..26  
/organism="unknown"  
BASE COUNT 5 a 9 c 7 g 5 t

## ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 26;  
 Best Local Similarity 100.0%; Pred. No. 8.5e+04;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1105 ccaagaggtgtcgc 1118  
 |||||  
 Db 24 CCAAGAGGTGTGCG 11

## RESULT 24

AR091212  
 LOCUS AR091212 26 bp DNA PAT 07-SEP-2000  
 DEFINITION Sequence 1332 from patent US 5994076.  
 ACCESSION AR091212  
 VERSION AR091212.1 GI:10017967  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unknown.

REFERENCE 1 (bases 1 to 26)

AUTHORS Chenchik, A., Jekhadze, G. and Bibilashvili, R.  
 TITLE Methods of assaying differential expression  
 JOURNAL Patent: US 5994076-A 1332 30-NOV-1999;  
 FEATURES Location/Qualifiers

source 1..26  
 /organism="unknown"

BASE COUNT 4 a 9 c 6 g 7 t  
 ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 26;  
 Best Local Similarity 100.0%; Pred. No. 8.5e+04;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 77 tacgggctccaggc 90  
 |||||  
 Db 4 TAGGGCTCCAGGC 17

## RESULT 25

AX037841/c  
 LOCUS AX037841 26 bp DNA PAT 16-NOV-2000  
 DEFINITION Sequence 192 from Patent WO0059917.  
 ACCESSION AX037841  
 VERSION AX037841.1 GI:11227223  
 KEYWORDS  
 SOURCE synthetic construct.  
 ORGANISM synthetic construct.

REFERENCE 1 (bases 1 to 26)

AUTHORS Howard, J.C., Feldkamp, U., Raube, H. and Banzhaf, W.  
 TITLE Information-carrying and information-processing polymers  
 JOURNAL Patent: WO 0059917-A 192 12-OCT-2000;  
 HOWARD JONATHAN C (DE); FELDAMP UDO (DE); RAUBE HILMAR (DE);  
 BANZHAF WOLFGANG (DE)

FEATURES Location/Qualifiers

source 1..26  
 /organism="synthetic construct"  
 /db\_xref="taxon:32630"  
 /note="X83L: Unique non-biological sequence for representation of data."

BASE COUNT 4 a 5 c 9 g 8 t  
 ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 26;  
 Best Local Similarity 100.0%; Pred. No. 8.5e+04;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1156 cctcaagatgccca 1169

Db 16 CCTCAGATGCCCA 3  
 |||||

## RESULT 26

AR1913  
 LOCUS AR1913 27 bp DNA PAT 22-JAN-2000  
 DEFINITION Sequence 1 from Patent WO9822606.  
 ACCESSION AR1913  
 VERSION AR1913.1 GI:6740780  
 KEYWORDS  
 SOURCE unidentified.  
 ORGANISM unidentified.

REFERENCE 1 (bases 1 to 27)

AUTHORS Rouy, D. and Benoit, P.  
 TITLE RECOMBINANT BICISTRON ADENOVIRUS FOR TREATING PATHOLOGICAL  
 CONDITIONS LINKED WITH DYSLIPOPROTEINEMIA  
 JOURNAL Patent: WO 9822606-A 1 28-MAY-1998;  
 ROUY DIDIER (FR); BENOIT PATRICK (FR)

FEATURES Location/Qualifiers

source 1..27  
 /organism="unidentified"  
 /db\_xref="taxon:32644"

BASE COUNT 6 a 8 c 8 g 5 t  
 ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 27;  
 Best Local Similarity 100.0%; Pred. No. 8.5e+04;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 120 gcctgataaccatg 133

Db 1 GCCTGATAACCATG 14  
 |||||

## RESULT 27

AR026695  
 LOCUS AR026695 27 bp DNA PAT 29-SEP-1999  
 DEFINITION Sequence 16 from patent US 5856134.  
 ACCESSION AR026695  
 VERSION AR026695.1 GI:5937535  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unknown.

REFERENCE 1 (bases 1 to 27)

AUTHORS Kim, J.P., Fry, K.E., Young, L.M., Linnen, J.M. and Wages, J.  
 TITLE Hepatitis G virus and molecular cloning thereof  
 JOURNAL Patent: US 5856134-A 16 05-JAN-1999;  
 FEATURES Location/Qualifiers

source 1..27

BASE COUNT 7 a 5 c 9 g 6 t  
 ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 27;  
 Best Local Similarity 100.0%; Pred. No. 8.5e+04;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1373 actgagacagctc 1386

Db 7 ACTGAGACAGCTC 20  
 |||||

## RESULT 28

AR026699/c  
 LOCUS AR026699 27 bp DNA PAT 29-SEP-1999  
 DEFINITION Sequence 21 from patent US 5856134.  
 ACCESSION AR026699  
 VERSION AR026699.1 GI:5937539

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KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 27)
AUTHORS Kim,J.P., Fry,K.E., Young,L.Marie, Linnen,J.M. and Wages,J.
TITLE Hepatitis G virus and molecular cloning thereof
JOURNAL Patent: US 5856134-A 21 05-JAN-1999;
FEATURES Location/Qualifiers
source 1..27
BASE COUNT 6 a 9 c 5 g 7 t
ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 27;
Best Local Similarity 100.0%; Pred. No. 8.5e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1373 actgagagcagctc 1386
Db 7 ACTGAGAGCAGCTC 20

RESULT 31
AR029305 AR029305 27 bp DNA PAT 29-SEP-1999
LOCUS
DEFINITION Sequence 27 from patent US 5859230.
ACCESSION AR029305
VERSION AR029305.1 GI:5941278
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 27)
AUTHORS Kim,J.P., Reyes,G.R. and Young,L.Marie.
TITLE Non-A/non-B/non-C/non-D/non-E hepatitis agents and molecular cloning thereof
JOURNAL Patent: US 5859230-A 27 12-JAN-1999;
FEATURES Location/Qualifiers
source 1..27
BASE COUNT 7 a 5 c 9 g 6 t
ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 27;
Best Local Similarity 100.0%; Pred. No. 8.5e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1373 actgagagcagctc 1386
Db 7 ACTGAGAGCAGCTC 20

RESULT 32
AR049121 AR049121 27 bp DNA PAT 29-SEP-1999
LOCUS
DEFINITION Sequence 16 from patent US 5824507.
ACCESSION AR049121
VERSION AR049121.1 GI:6005160
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 27)
AUTHORS Kim,J.P., Fry,K.E., Young,L.Marie, Linnen,J.M. and Wages,J.
TITLE Hepatitis G virus and molecular cloning thereof
JOURNAL Patent: US 5824507-A 16 20-OCT-1998;
FEATURES Location/Qualifiers
source 1..27
BASE COUNT 7 a 5 c 9 g 6 t
ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 27;
Best Local Similarity 100.0%; Pred. No. 8.5e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1373 actgagagcagctc 1386
Db 7 ACTGAGAGCAGCTC 20

RESULT 33
AR049121 AR049121 27 bp DNA PAT 29-SEP-1999
LOCUS
DEFINITION Sequence 16 from patent US 5824507.
ACCESSION AR049121
VERSION AR049121.1 GI:6005160
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 27)
AUTHORS Kim,J.P., Fry,K.E., Young,L.Marie, Linnen,J.M. and Wages,J.
TITLE Hepatitis G virus and molecular cloning thereof
JOURNAL Patent: US 5824507-A 16 20-OCT-1998;
FEATURES Location/Qualifiers
source 1..27
BASE COUNT 7 a 5 c 9 g 6 t
ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 27;
Best Local Similarity 100.0%; Pred. No. 8.5e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1373 actgagagcagctc 1386
Db 7 ACTGAGAGCAGCTC 20

RESULT 33
AR049121 AR049121 27 bp DNA PAT 29-SEP-1999
LOCUS
DEFINITION Sequence 16 from patent US 5824507.
ACCESSION AR049121
VERSION AR049121.1 GI:6005160
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 27)
AUTHORS Kim,J.P., Fry,K.E., Young,L.Marie, Linnen,J.M. and Wages,J.
TITLE Hepatitis G virus and molecular cloning thereof
JOURNAL Patent: US 5824507-A 16 20-OCT-1998;
FEATURES Location/Qualifiers
source 1..27
BASE COUNT 7 a 5 c 9 g 6 t
ORIGIN
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AR049125/c  
LOCUS AR049125 27 bp DNA PAT 29-SEP-1999  
DEFINITION Sequence 21 from patent US 5824507.  
ACCESSION AR049125  
VERSION AR049125.1 GI:6005164  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 27)  
AUTHORS Kim,J.P., Fry,K.E., Young,L.Marie, Linnen,J.M. and Wages,J.  
TITLE Hepatitis G virus and molecular cloning thereof  
JOURNAL Patent: US 5824507-A 21 20-OCT-1998;  
FEATURES Location/Qualifiers  
source 1..27  
/organism="unknown"  
BASE COUNT 6 a 9 c 5 g 7 t  
ORIGIN  
  
Query Match 0.8%; Score 14; DB 6; Length 27;  
Best Local Similarity 100.0%; Pred. No. 8.5e+04;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1373 actgagagcagctc 1386  
|||||  
Db 21 ACTGAGAGCAGCTC 8  
  
RESULT 34  
AR049139  
LOCUS AR049139 27 bp DNA PAT 29-SEP-1999  
DEFINITION Sequence 35 from patent US 5824507.  
ACCESSION AR049139  
VERSION AR049139.1 GI:6005178  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 27)  
AUTHORS Kim,J.P., Fry,K.E., Young,L.Marie, Linnen,J.M. and Wages,J.  
TITLE Hepatitis G virus and molecular cloning thereof  
JOURNAL Patent: US 5824507-A 35 20-OCT-1998;  
FEATURES Location/Qualifiers  
source 1..27  
/organism="unknown"  
BASE COUNT 7 a 5 c 9 g 6 t  
ORIGIN  
  
Query Match 0.8%; Score 14; DB 6; Length 27;  
Best Local Similarity 100.0%; Pred. No. 8.5e+04;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1373 actgagagcagctc 1386  
|||||  
Db 21 ACTGAGAGCAGCTC 8  
  
RESULT 35  
AR049140  
LOCUS AR049140 27 bp DNA PAT 29-SEP-1999  
DEFINITION Sequence 36 from patent US 5824507.  
ACCESSION AR049140  
VERSION AR049140.1 GI:6005179  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 27)  
AUTHORS Kim,J.P., Fry,K.E., Young,L.Marie, Linnen,J.M. and Wages,J.  
TITLE Hepatitis G virus and molecular cloning thereof  
JOURNAL Patent: US 5824507-A 36 20-OCT-1998;

FEATURES Location/Qualifiers  
source 1..27  
/organism="unknown"  
BASE COUNT 7 a 5 c 9 g 6 t  
ORIGIN  
  
Query Match 0.8%; Score 14; DB 6; Length 27;  
Best Local Similarity 100.0%; Pred. No. 8.5e+04;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1373 actgagagcagctc 1386  
|||||  
Db 7 ACTGAGAGCAGCTC 20  
  
RESULT 36  
AR065379  
LOCUS AR065379 27 bp DNA PAT 29-SEP-1999  
DEFINITION Sequence 16 from patent US 5849532.  
ACCESSION AR065379  
VERSION AR065379.1 GI:5995595  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 27)  
AUTHORS Kim,J.P., Fry,K.E., Young,L.Marie, Linnen,J.M. and Wages,J.  
TITLE Hepatitis G virus and molecular cloning thereof  
JOURNAL Patent: US 5849532-A 16 15-DEC-1998;  
FEATURES Location/Qualifiers  
source 1..27  
/organism="unknown"  
BASE COUNT 7 a 5 c 9 g 6 t  
ORIGIN  
  
Query Match 0.8%; Score 14; DB 6; Length 27;  
Best Local Similarity 100.0%; Pred. No. 8.5e+04;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1373 actgagagcagctc 1386  
|||||  
Db 7 ACTGAGAGCAGCTC 20  
  
RESULT 37  
AR065383/c  
LOCUS AR065383 27 bp DNA PAT 29-SEP-1999  
DEFINITION Sequence 21 from patent US 5849532.  
ACCESSION AR065383  
VERSION AR065383.1 GI:5995599  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 27)  
AUTHORS Kim,J.P., Fry,K.E., Young,L.Marie, Linnen,J.M. and Wages,J.  
TITLE Hepatitis G virus and molecular cloning thereof  
JOURNAL Patent: US 5849532-A 21 15-DEC-1998;  
FEATURES Location/Qualifiers  
source 1..27  
/organism="unknown"  
BASE COUNT 6 a 9 c 5 g 7 t  
ORIGIN  
  
Query Match 0.8%; Score 14; DB 6; Length 27;  
Best Local Similarity 100.0%; Pred. No. 8.5e+04;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1373 actgagagcagctc 1386  
|||||  
Db 7 ACTGAGAGCAGCTC 20  
  
RESULT 38  
AR065383/c  
LOCUS AR065383 27 bp DNA PAT 29-SEP-1999  
DEFINITION Sequence 21 from patent US 5849532.  
ACCESSION AR065383  
VERSION AR065383.1 GI:5995599  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 27)  
AUTHORS Kim,J.P., Fry,K.E., Young,L.Marie, Linnen,J.M. and Wages,J.  
TITLE Hepatitis G virus and molecular cloning thereof  
JOURNAL Patent: US 5849532-A 21 15-DEC-1998;  
FEATURES Location/Qualifiers  
source 1..27  
/organism="unknown"  
BASE COUNT 6 a 9 c 5 g 7 t  
ORIGIN  
  
Query Match 0.8%; Score 14; DB 6; Length 27;  
Best Local Similarity 100.0%; Pred. No. 8.5e+04;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1373 actgagagcagctc 1386  
|||||  
Db 7 ACTGAGAGCAGCTC 20

Db 21 ACTGAGAGCAGCTC 8

RESULT 38  
LOCUS AR065397 27 bp DNA PAT 29-SEP-1999  
DEFINITION Sequence 35 from patent US 5849532.  
ACCESSION AR065397  
VERSION AR065397.1 GI:5995613  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 27)  
AUTHORS Kim, J. P., Fry, K. E., Young, L. Marie, Linnen, J. M. and Wages, J.  
TITLE Hepatitis G virus and molecular cloning thereof  
JOURNAL Patent: US 5849532-A 35 15-DEC-1998;  
FEATURES Location/Qualifiers  
1..27  
/organism="unknown"  
BASE COUNT 7 a 5 c 9 g 6 t  
ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 27;  
Best Local Similarity 100.0%; Pred. No. 8.5e+04;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1373 actgagagcagctc 1386  
|||||  
Db 7 ACTGAGAGCAGCTC 20

RESULT 39  
LOCUS AR065398 27 bp DNA PAT 29-SEP-1999  
DEFINITION Sequence 36 from patent US 5849532.  
ACCESSION AR065398  
VERSION AR065398.1 GI:5995614  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 27)  
AUTHORS Kim, J. P., Fry, K. E., Young, L. Marie, Linnen, J. M. and Wages, J.  
TITLE Hepatitis G virus and molecular cloning thereof  
JOURNAL Patent: US 5849532-A 36 15-DEC-1998;  
FEATURES Location/Qualifiers  
1..27  
/organism="unknown"  
BASE COUNT 7 a 5 c 9 g 6 t  
ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 27;  
Best Local Similarity 100.0%; Pred. No. 8.5e+04;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1373 actgagagcagctc 1386  
|||||  
Db 7 ACTGAGAGCAGCTC 20

RESULT 40  
LOCUS I22030 28 bp DNA PAT 07-OCT-1996  
DEFINITION Sequence 4 from patent US 5525504.  
ACCESSION I22030  
VERSION I22030.1 GI:1602384  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 28)  
AUTHORS Goebel, W., Libby, S. J. and Heffron, F.  
TITLE Cytolysin gene and gene product  
JOURNAL Patent: US 5525504-A 4 11-JUN-1996;  
FEATURES Location/Qualifiers  
1..28  
/organism="unknown"  
BASE COUNT 11 a 3 c 7 g 7 t  
ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 28;  
Best Local Similarity 100.0%; Pred. No. 8.5e+04;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 686 aattcatctctctt 699  
|||||  
Db 19 AATTTCATCTCCTT 6

RESULT 41  
LOCUS AX167972 31 bp DNA PAT 03-JUL-2001  
DEFINITION Sequence 156 from Patent WO0142307.  
ACCESSION AX167972  
VERSION AX167972.1 GI:14597292  
KEYWORDS  
SOURCE synthetic construct.  
ORGANISM synthetic construct.  
REFERENCE 1 (bases 1 to 31)  
AUTHORS Saito, K., Ohe, N. and Satoh, H.  
TITLE Mutant ef-g(a) and test systems for transactivation  
JOURNAL Patent: WO 0142307-A 156 14-JUN-2001;  
Sumitomo Chemical Company, Limited (JP)  
FEATURES Location/Qualifiers  
1..31  
/organism="synthetic construct"  
/db\_xref="taxon:32630"  
/note="Designed oligonucleotide primer for mutagenesis"  
BASE COUNT 5 a 9 c 10 g 7 t  
ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 31;  
Best Local Similarity 100.0%; Pred. No. 8.4e+04;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 144 cagctctgaccctg 157  
|||||  
Db 19 CAGTCTGACCTG 6

RESULT 42  
LOCUS AX107235 32 bp DNA PAT 30-APR-2001  
DEFINITION Sequence 54 from Patent WO0123606.  
ACCESSION AX107235  
VERSION AX107235.1 GI:13922720  
KEYWORDS  
SOURCE synthetic construct.  
ORGANISM synthetic construct.  
REFERENCE 1 (bases 1 to 32)  
AUTHORS Grabowski, R. and Berghof, K.  
TITLE Nucleic acid molecules for detecting bacteria and phylogenetic  
units of bacteria  
JOURNAL Patent: WO 0123606-A 54 05-APR-2001;  
Biotecon Diagnostics GmbH (DE)  
FEATURES Location/Qualifiers  
1..32  
/organism="synthetic construct"  
/db\_xref="taxon:32630"

BASE COUNT 9 a 6 c 12 g 5 t  
ORIGIN /note="abgeleitet von Gattungen der Enterobakterien"

Query Match 0.8%; Score 14; DB 6; Length 32;  
Best Local Similarity 100.0%; Pred. No. 8.4e+04;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 712 ggtctgaaggac 725  
|||||  
Db 3 GGTCTGAAGGAC 16

## RESULT 43

AX107358 32 bp DNA PAT 30-APR-2001  
LOCUS  
DEFINITION Sequence 177 from Patent WO0123606.  
ACCESSION AX107358  
VERSION AX107358.1 GI:13922843  
KEYWORDS  
SOURCE Pantoea dispersa.  
ORGANISM Pantoea dispersa  
Bacteria; Proteobacteria; gamma subdivision; Enterobacteriaceae;  
Pantoea.  
REFERENCE 1 (bases 1 to 32)  
AUTHORS Grabowski, R. and Berghof, K.  
TITLE Nucleic acid molecules for detecting bacteria and phylogenetic  
units of bacteria  
JOURNAL Patent: WO 0123606-A 177 05-APR-2001;  
Biotecon Diagnostics GmbH (DE)  
FEATURES  
source  
1. .32  
/db\_xref="taxon:59814" 3 t

BASE COUNT 9 a 7 c 13 g 3 t  
ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 32;  
Best Local Similarity 100.0%; Pred. No. 8.4e+04;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 712 ggtctgaaggac 725  
|||||  
Db 3 GGTCTGAAGGAC 16

## RESULT 44

AR014162/c 33 bp DNA PAT 05-DEC-1998  
LOCUS  
DEFINITION Sequence 4 from patent US 5773252.  
ACCESSION AR014162  
VERSION AR014162.1 GI:3971616  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 33)  
AUTHORS Greene, J.M. and Rosen, C.A.  
TITLE Fibroblast growth factor 15  
JOURNAL Patent: US 5773252-A 4 30-JUN-1998;  
FEATURES  
source  
1. .33  
/organism="unknown" 13 t

BASE COUNT 5 a 6 c 9 g 13 t  
ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 33;  
Best Local Similarity 100.0%; Pred. No. 8.4e+04;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1168 caagatctctgc 1181  
|||||  
Db 14 CAAGATCTCTGCC 1

## RESULT 45

AX067826/c 33 bp DNA PAT 19-JAN-2001  
LOCUS  
DEFINITION Sequence 63 from Patent WO0077043.  
ACCESSION AX067826  
VERSION AX067826.1 GI:12329704  
KEYWORDS  
SOURCE synthetic construct.  
ORGANISM synthetic construct  
artificial sequence.  
REFERENCE 1 (bases 1 to 33)  
AUTHORS Fischer, L.J., Barzu-le Roux, S. and Audonnet, J.C.  
TITLE Dna vaccines for pets and sport animals  
JOURNAL Patent: WO 0077043-A 63 21-DEC-2000;  
Merial (FR)  
FEATURES  
Location/Qualifiers  
1. .33  
/organism="synthetic construct"  
/db\_xref="taxon:32630" 9 t  
/note="oligonucleotide" 9 g

BASE COUNT 9 a 6 c 9 g 9 t  
ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 33;  
Best Local Similarity 100.0%; Pred. No. 8.4e+04;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1750 ctatcctaaaggcc 1763  
|||||  
Db 20 CTATCCTAAAGGCC 7

Search completed: April 20, 2002, 01:08:26  
Job time: 11465 sec



GenCore version 4.5  
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OM nucleic - nucleic search, using sw model

Run on: April 19, 2002, 23:59:08 ; Search time 184.86 Seconds  
(without alignments)  
8287.570 Million cell updates/sec

Title: US-09-925-139-3  
Perfect score: 1787  
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Scoring table: OLIGO\_NUC  
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Searched: 930621 seqs, 428662619 residues

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Minimum DB seq length: 0  
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  - 13: /SIDS2/gcgdata/geneseq/geneseq/NA1992.DAT.\*
  - 14: /SIDS2/gcgdata/geneseq/geneseq/NA1993.DAT.\*
  - 15: /SIDS2/gcgdata/geneseq/geneseq/NA1994.DAT.\*
  - 16: /SIDS2/gcgdata/geneseq/geneseq/NA1995.DAT.\*
  - 17: /SIDS2/gcgdata/geneseq/geneseq/NA1996.DAT.\*
  - 18: /SIDS2/gcgdata/geneseq/geneseq/NA1997.DAT.\*
  - 19: /SIDS2/gcgdata/geneseq/geneseq/NA1998.DAT.\*
  - 20: /SIDS2/gcgdata/geneseq/geneseq/NA1999.DAT.\*
  - 21: /SIDS2/gcgdata/geneseq/geneseq/NA2000.DAT.\*
  - 22: /SIDS2/gcgdata/geneseq/geneseq/NA2001.DAT.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	46	2.6	46	15	AAQ69339 Human CERP gene, t
2	46	2.6	46	18	AAQ63801 Human cholesteryl
3	46	2.6	46	20	AAI17089 Test sequence from
4	34	1.9	34	20	AAI36594 PCR primer for Mam
5	30	1.7	30	20	AAI22540 Human CERP DNA fra
6	27	1.5	40	20	AAI36595 PCR primer for Mam
7	21	1.2	24	20	AAI86985 Cholesteryl ester
8	18	1.0	18	17	AAI50642 Human CERP hairpin
9	18	1.0	18	17	AAI50596 Human CERP hairpin
10	18	1.0	18	17	AAI50597 Human CERP hairpin
11	18	1.0	18	17	AAI50598 Human CERP hairpin

12	18	1.0	18	17	AAI50599 Human CERP hairpin
13	18	1.0	18	17	AAI50600 Human CERP hairpin
14	18	1.0	18	17	AAI50601 Human CERP hairpin
15	18	1.0	18	17	AAI50602 Human CERP hairpin
16	18	1.0	18	17	AAI50603 Human CERP hairpin
17	18	1.0	18	17	AAI50604 Human CERP hairpin
18	18	1.0	18	17	AAI50605 Human CERP hairpin
19	18	1.0	18	17	AAI50606 Human CERP hairpin
20	18	1.0	18	17	AAI50607 Human CERP hairpin
21	18	1.0	18	17	AAI50608 Human CERP hairpin
22	18	1.0	18	17	AAI50609 Human CERP hairpin
23	18	1.0	18	17	AAI50610 Human CERP hairpin
24	18	1.0	18	17	AAI50611 Human CERP hairpin
25	18	1.0	18	17	AAI50612 Human CERP hairpin
26	18	1.0	18	17	AAI50613 Human CERP hairpin
27	18	1.0	18	17	AAI50614 Human CERP hairpin
28	18	1.0	18	17	AAI50615 Human CERP hairpin
29	18	1.0	18	17	AAI50616 Human CERP hairpin
30	18	1.0	18	17	AAI50617 Human CERP hairpin
31	18	1.0	18	17	AAI50618 Human CERP hairpin
32	18	1.0	18	17	AAI50619 Human CERP hairpin
33	18	1.0	18	17	AAI50620 Human CERP hairpin
34	18	1.0	18	17	AAI50621 Human CERP hairpin
35	18	1.0	18	17	AAI50622 Human CERP hairpin
36	18	1.0	18	17	AAI50623 Human CERP hairpin
37	18	1.0	18	17	AAI50624 Human CERP hairpin
38	18	1.0	18	17	AAI50625 Human CERP hairpin
39	18	1.0	18	17	AAI50743 Rabbit CERP hairpi
40	18	1.0	18	17	AAI50626 Human CERP hairpin
41	18	1.0	18	17	AAI50627 Human CERP hairpin
42	18	1.0	18	17	AAI50628 Human CERP hairpin
43	18	1.0	18	17	AAI50629 Human CERP hairpin
44	18	1.0	18	17	AAI50630 Human CERP hairpin
45	18	1.0	18	17	AAI50631 Human CERP hairpin

ALIGNMENTS

RESULT 1  
AAQ69339  
ID AAQ69339 standard; DNA; 46 BP.  
XX  
AC AAQ69339;  
XX  
DI 22-FEB-1995 (first entry)  
XX  
DE Human CERP gene, target region.  
XX  
KW DNA protein-binding assay; test sequence; screening sequence;  
KW promoter; target; TATA box; Herpes Simplex Virus; HSV;  
KW origin of replication; UL9; transcription factor; TRID;  
KW CERP; cholesteryl ester transferase protein; ds.  
XX  
OS Synthetic.  
XX  
PN WO9414980-A.  
XX  
PD 07-JUL-1994.  
XX  
PF 20-DEC-1993; 93WO-US12388.  
XX  
PR 23-DEC-1992; 92US-0996783.  
PR 17-SEP-1993; 93US-0123936.  
XX (GENE-) GENELABS TECHNOLOGIES INC.  
XX Andrews BM, Cantor CR, Edwards CA, Fry KE, Turin LM;  
XX WPI; 1994-234711/28.  
XX  
XX Sequence-directed DNA-binding molecules - useful in  
XX pharmaceuticals and as molecular reagents



XX PS Claim 3; Columns 145-146; 270pp; English.

XX CC Sequences AAX17001 to AAX17600 represent specifically claimed target

XX CC test sequences that are used in the method of the invention of

XX CC determining the DNA sequence preference of a DNA-binding molecule. The

XX CC method comprises: (i) adding a test molecule and a DNA-binding protein to

XX CC a mixture of duplex DNA test oligonucleotides, each of the test

XX CC oligonucleotides having a test sequence adjacent to a screening sequence,

XX CC where the screening sequence binds to the DNA-binding protein with a

XX CC binding affinity that is independent of the DNA sequence of the test

XX CC sequences, and where the mixture of duplex DNA test oligonucleotides

XX CC includes several test sequences; (ii) incubating the test molecule, the

XX CC mixture of duplex DNA test oligonucleotides and the DNA-binding protein

XX CC for a time sufficient to permit binding of the test molecule to test

XX CC sequences in the duplex DNA; (iii) separating unbound test

XX CC oligonucleotides from test oligonucleotides bound to binding protein;

XX CC (iv) amplifying the unbound test oligonucleotides; (v) repeating steps

XX CC (ii) to (iv); (vi) isolating the amplified test oligonucleotides; and

XX CC (vii) sequencing the isolated test oligonucleotides. Test sequences

XX CC AAX17001-X17481 and AAX17600 correspond to promoter targets for human

XX CC genes and test sequences AAX17482-X17599 correspond to promoter targets

XX CC for viral genes.

XX SQ Sequence 46 BP; 9 A; 11 C; 19 G; 7 T; 0 other;

Query Match 2.6%; Score 46; DB 20; Length 46;

Best Local Similarity 100.0%; Pred. No. 2.1e-12;

Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 53 gtggggctgggggacatacatatcgggtccagctgaacggc 98

Db 1 gtggggctgggggacatacatatcgggtccagctgaacggc 46

RESULT - 4

AAX36594

ID AAX36594 standard; DNA; 34 BP.

XX AC AAX36594;

XX DT 08-JUL-1999 (first entry)

XX DE PCR primer for Mammalian CETP immunogenic fragment coding sequence.

XX KW CETP; cholesteryl-ester transfer protein; recombinant DNA vaccine; HDL;

XX KW antibody production; cholesteryl ester transfer; therapy;

XX KW high density lipoprotein; HDL cholesterol concentration;

XX KW pro-atherogenic dyslipoproteinaemia; PCR primer; ss.

XX OS Synthetic.

XX OS Homo sapiens.

XX PN W09915655-Al.

XX PD 01-APR-1999.

XX PF 17-SEP-1998; 98WO-US19366.

XX PR 19-SEP-1997; 97US-0934367.

XX PA (MONS ) MONSANTO CO.

XX PI Glenn K, Needleman P;

XX DR WPI; 1999-276984/23.

XX PT New recombinant DNA vaccines

XX PS Example 3; Page 49; 99pp; English.

XX CC This sequence is a PCR primer for DNA encoding an immunogenic fragment of

CC the human cholesteryl ester transferase protein (CETP).

CC The invention relates to recombinant DNA vaccines that contain DNA

CC encoding CETP, which can be used for producing antibodies to lessen the

CC transfer of cholesteryl esters from high density lipoprotein (HDL). The

CC method can provide an autogenic immunological process for lessening the

CC transfer of cholesteryl esters from HDL particles and for increasing the

CC HDL cholesterol concentration of a mammal whose blood also contains

CC CETP. The method may be useful in treating human pro-atherogenic

CC dyslipoproteinaemias characterised by low HDL/LDL cholesterol ratios. The

CC method can have an effect that lasts for months as compared to the

CC short-term effects of the small molecule drugs now available.

XX SQ Sequence 34 BP; 6 A; 9 C; 9 G; 10 T; 0 other;

Query Match 1.9%; Score 34; DB 20; Length 34;

Best Local Similarity 100.0%; Pred. No. 1.5e-06;

Matches 34; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1522 gattatcactcgagatggcttctctgctgctgcag 1555

Db 1 gattatcactcgagatggcttctctgctgctgcag 34

RESULT 5

AAX22540/c

ID AAX22540 standard; DNA; 30 BP.

XX AC AAX22540;

XX DT 21-MAY-1999 (first entry)

XX DE Human CETP DNA fragment #1.

XX KW CETP; cholesteryl ester transfer protein; inhibitor; therapy; treatment;

XX KW surface plasmon resonance; vascular disease; pathogenic; atherosclerosis;

XX KW human; ss.

XX OS Homo sapiens.

XX PN DE19731609-Al.

XX PD 18-FEB-1999.

XX PF 23-JUL-1997; 97DE-1031609.

XX PR 23-JUL-1997; 97DE-1031609.

XX PA (BOEH ) BOEHRINGER INGELHEIM PHARMA KG.

XX PI Budzinski R, Krist B, Mark M, Mueller P;

XX DR WPI; 1999-143775/13.

XX PT RNA transcript of human cholesteryl ester transfer protein gene

XX PT useful in drug screening assays, especially for atherosclerosis

XX PS Claim 31; Page 9; 24pp; German.

XX CC This invention describes the isolation of a transcript of the human

XX CC cholesteryl ester transfer protein (CETP) gene having a 5' untranslated

XX CC region including a regulatory sequence. The invention also describes

XX CC a method (a) for identifying substances capable of inhibiting CETP gene

XX CC expression, comprising measuring the translation rate of the above

XX CC transcript in the presence of a test substance, (2) a test substance

XX CC capable of inhibiting CETP gene expression, (3) an antisense

XX CC oligonucleotide capable of binding to the 5' untranslated region of the

XX CC above transcript and (4) a method based on surface plasmon resonance for

XX CC measuring the binding of a substance to a nucleic acid. The test

XX CC substance of (2) and the oligonucleotide of (3) are useful for

XX CC prophylactic or therapeutic treatment of vascular diseases in which CETP

XX CC has a pathogenic role, especially atherosclerosis.

SQ Sequence 30 BP; 6 A; 3 C; 12 G; 9 T; 0 other;

Query Match 1.7%; Score 30; DB 20; Length 30;  
Best Local Similarity 100.0%; Pred. No. 0.00013;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 105 cacttacacaccctgcctgataaccatgc 134  
|||||  
DB 30 CACTTACACCACTGCTGATAACCATGC 1

RESULT 6

AAX36595/c

ID AAX36595 standard; DNA; 40 BP.

AC AAX36595;

XX 08-JUL-1999 (first entry)

DT PCR primer for Mammalian CETP immunogenic fragment coding sequence.

DE CETP; cholesteryl-ester transfer protein; recombinant DNA vaccine; HDL;

KW antibody production; cholesteryl ester transfer; therapy;

KW high density lipoprotein; HDL cholesterol concentration;

KW pro-atherogenic dyslipoproteinaemia; PCR primer; ss.

XX Synthetic.

OS Homo sapiens.

XX WO9915655-A1.

PN 01-APR-1999.

PD 17-SEP-1998; 98WO-US19366.

XX 19-SEP-1997; 97US-0934367.

PR (MONS ) MONSANTO CO.

PA Glenn K, Needleman P;

PI WPI; 1999-276984/23.

XX New recombinant DNA vaccines

PT Example 3; Page 50; 99pp; English.

XX This sequence is a PCR primer for DNA encoding an immunogenic fragment of

CC the human cholesteryl ester transferase protein (CETP).

CC The invention relates to recombinant DNA vaccines that contain DNA

CC encoding CETP, which can be used for producing antibodies to lessen the

CC transfer of cholesteryl esters from high density lipoprotein (HDL). The

CC method can provide an autogenic immunological process for lessening the

CC transfer of cholesteryl esters from HDL particles and for increasing the

CC HDL cholesterol concentration of a mammal whose blood also contains

CC CETP. The method may be useful in treating human pro-atherogenic

CC dyslipoproteinaemias characterised by low HDL/HDL cholesterol ratios. The

CC method can have an effect that lasts for months as compared to the

CC short-term effects of the small molecule drugs now available.

XX Sequence 40 BP; 12 A; 11 C; 10 G; 7 T; 0 other;

Query Match 1.5%; Score 27; DB 20; Length 40;

Best Local Similarity 100.0%; Pred. No. 0.0038;

Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1583 ctggtgatttctccagagcttgagc 1609  
|||||

DB 40 CTGGTGGATTCTCCAGAGCTTGAGC 14

RESULT 7

AAX86985/c

ID AAX86985 standard; DNA; 24 BP.

XX AAX86985;

XX 24-SEP-1999 (first entry)

DT Cholesteryl ester transfer protein (CETP) gene amplifying reverse primer.

DE Lipid-lowering therapy; LIT; coronary artery disease; CAD; CETP;

XX TagIB restriction site; cholesterol ester transfer protein; HDL;

KW high-density lipoprotein; PCR primer; ss.

XX Synthetic.

OS Homo sapiens.

XX WO9935286-A2.

PN 15-JUL-1999.

XX 06-JAN-1999; 99WO-EP00150.

PF 07-JAN-1998; 98EP-0200022.

XX (UYAM-) UNIV AMSTERDAM ACAD ZIEKENHUIS BIJ VAN.

PA Kastelein JJP, Kulvenhoven JA;

PI WPI; 1999-444202/37.

XX Assay for testing the genetic predisposition to respond to

XX lipid-lowering therapy in patients with coronary artery disease

PT (CAD)

XX Claim 2; Page 20; 25pp; English.

XX The invention relates to an assay for testing the genetic predisposition

CC to respond to lipid-lowering therapy (LIT) in patients with coronary

CC artery disease (CAD). The method comprises detecting a TaqIB restriction

CC site in intron 1 of both alleles of the cholesterol ester transfer

CC protein (CETP) gene by a suitable technique, and correlating the

CC presence of the site with a high or intermediate susceptibility for LIT.

CC The TaqIB polymorphism in the CETP gene is associated with an effect on

CC lipid transfer activity and high-density lipoprotein (HDL) levels. This

CC facilitates predicting the success of LIT's in patients. Sequences

CC AAX86984-85 represent PCR primers derived from the CETP gene and are

CC used for testing the predisposition to respond to LIT in patients with

CC CAD.

XX Sequence 24 BP; 6 A; 8 C; 3 G; 7 T; 0 other;

Query Match 1.2%; Score 21; DB 20; Length 24;

Best Local Similarity 100.0%; Pred. No. 3.2; 0; Indels 0; Gaps 0;

Matches 21; Conservative 0; Mismatches 0;

QY 343 agtcaagtatgggttcacaa 363  
|||||

DB 24 AGTCAAGTATGGGTTCACAA 4

RESULT 8

AAT50642

ID AAT50642 standard; RNA; 18 BP.

XX AAT50642;

XX 10-MAR-1997 (first entry)

DT Human CETP hairpin ribozyme target sequence #1669.

XX Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;



KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;  
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;  
 KW familial hypercholesterolaemia; dyslipidaemia; hypobetalipoproteinaemia;  
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;  
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;  
 KW LDL; ss.  
 XX Homo sapiens.  
 XX WO9620279-A1.  
 PD 04-JUL-1996.  
 XX 11-DEC-1995; 95WO-US16000.  
 XX 23-DEC-1994; 94US-0363240.  
 PA (RIBO-) RIBOZYME PHARM INC.  
 PA (WARN ) WARNER LAMBERT CO.  
 XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;  
 XX WPI; 1996-321852/32.  
 XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA  
 PT - useful for preventing or treating initial development, progression  
 PT or regression of vascular diseases, esp. familial  
 PT hypercholesterolaemia  
 XX Claim 4; Page 54; 72pp; English.  
 PS AAT50595-T50642 represent target sequences for the human cholesterol  
 CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).  
 CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer  
 CC between plasma lipoproteins. The numbering of the targets refers to the  
 CC position of the cleavage site in full length CETP. The ribozyme then  
 CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The  
 CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby  
 CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,  
 CC the reverse cholesterol transport (RCT) pathway can be inhibited (or  
 CC eliminated) thereby preventing the reduction in size density of the high  
 CC density lipoproteins (HDL), prolonging HDL half life, and therefore  
 CC increasing HDL levels. The ribozymes can be used to treat conditions  
 CC associated with abnormal levels of CETP, specifically atherosclerosis,  
 CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,  
 CC familial hypercholesterolaemia, hypobetalipoproteinaemia, vascular  
 CC complications of diabetes, transplant, atherectomy and angioplastic  
 CC restenosis. By inhibiting CETP, the levels of HDL and low density  
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a  
 CC decrease in LDL levels, and a corresponding increase in HDL levels). The  
 CC ribozymes can also be used diagnostically to study genetic drift and  
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes  
 CC target specific regions of the CETP gene, they have low non-specific  
 CC activity.  
 XX Sequence 18 BP; 4 A; 7 C; 4 G; 3 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;  
 Best Local Similarity 83.3%; Pred. No. 91;  
 Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1663 gctcacagctgggaacct 1680  
 Db 1 gcucacagcuggaacccu 18

RESULT 9  
 AAT50596  
 ID AAT50596 standard; RNA; 18 BP.  
 XX  
 AC AAT50596;  
 XX

DT 10-MAR-1997 (first entry)  
 XX Human CETP hairpin ribozyme target sequence #30.  
 DE Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;  
 XX neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;  
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;  
 KW familial hypercholesterolaemia; dyslipidaemia; hypobetalipoproteinaemia;  
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;  
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;  
 KW LDL; ss.  
 XX Homo sapiens.  
 XX WO9620279-A1.  
 PD 04-JUL-1996.  
 XX 11-DEC-1995; 95WO-US16000.  
 XX 23-DEC-1994; 94US-0363240.  
 PA (RIBO-) RIBOZYME PHARM INC.  
 PA (WARN ) WARNER LAMBERT CO.  
 XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;  
 XX WPI; 1996-321852/32.  
 XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA  
 PT - useful for preventing or treating initial development, progression  
 PT or regression of vascular diseases, esp. familial  
 PT hypercholesterolaemia  
 XX Claim 4; Page 52; 72pp; English.  
 PS AAT50595-T50642 represent target sequences for the human cholesterol  
 CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).  
 CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer  
 CC between plasma lipoproteins. The numbering of the targets refers to the  
 CC position of the cleavage site in full length CETP. The ribozyme then  
 CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The  
 CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby  
 CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,  
 CC the reverse cholesterol transport (RCT) pathway can be inhibited (or  
 CC eliminated) thereby preventing the reduction in size density of the high  
 CC density lipoproteins (HDL), prolonging HDL half life, and therefore  
 CC increasing HDL levels. The ribozymes can be used to treat conditions  
 CC associated with abnormal levels of CETP, specifically atherosclerosis,  
 CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,  
 CC familial hypercholesterolaemia, hypobetalipoproteinaemia, vascular  
 CC complications of diabetes, transplant, atherectomy and angioplastic  
 CC restenosis. By inhibiting CETP, the levels of HDL and low density  
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a  
 CC decrease in LDL levels, and a corresponding increase in HDL levels). The  
 CC ribozymes can also be used diagnostically to study genetic drift and  
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes  
 CC target specific regions of the CETP gene, they have low non-specific  
 CC activity.  
 XX Sequence 18 BP; 3 A; 7 C; 6 G; 2 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;  
 Best Local Similarity 88.9%; Pred. No. 91;  
 Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 24 cctgctgcccgaagag 41  
 Db 1 cccugcugcccgaagag 18

RESULT 10

DB	1	cugaacgcgucggccac 18
XX	11	RESULT
XX	AAT50597	standard; RNA; 18 BP.
XX	AAT50598	(first entry)
XX	AAT50599	Human CETP hairpin ribozyme target sequence #119.
XX	AAT50600	Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;
XX	AAT50601	neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
XX	AAT50602	reverse cholesterol transport; high density lipoprotein; therapy; CETP;
XX	AAT50603	familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;
XX	AAT50604	peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
XX	AAT50605	angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
XX	AAT50606	LDL; ss.
XX	AAT50607	Homo sapiens.
XX	AAT50608	WO9620279-A1.
XX	AAT50609	04-JUL-1996.
XX	AAT50610	11-DEC-1995; 95WO-US16000.
XX	AAT50611	23-DEC-1994; 94US-0363240.
XX	AAT50612	(RIBO-) RIBOZYME PHARM INC.
XX	AAT50613	(WARN) WARNER LAMBERT CO.
XX	AAT50614	Bisgalier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
XX	AAT50615	WPI; 1996-321852/32.
XX	AAT50616	New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
XX	AAT50617	- useful for preventing or treating initial development, progression
XX	AAT50618	or regression of vascular diseases, esp. familial
XX	AAT50619	hypercholesterolaemia
XX	AAT50620	Claim 4; Page 52; 72pp; English.
XX	AAT50621	AAT50595-T50642 represent target sequences for the human cholesterol
XX	AAT50622	ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).
XX	AAT50623	CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer
XX	AAT50624	between plasma lipoproteins. The numbering of the targets refers to the
XX	AAT50625	position of the cleavage site in full length CETP. The ribozyme then
XX	AAT50626	binds to 4-6 nucleotides 5', and a variable number 3' of this site. The
XX	AAT50627	ribozymes are able to cleave mRNA from the gene encoding CETP, thereby
XX	AAT50628	blocking synthesis and/or expression of the mRNA. By inhibiting CETP,
XX	AAT50629	the reverse cholesterol transport (RCT) pathway can be inhibited (or
XX	AAT50630	eliminated) thereby preventing the reduction in size density of the high
XX	AAT50631	density lipoproteins (HDL), prolonging HDL half life, and therefore
XX	AAT50632	increasing HDL levels. The ribozymes can be used to treat conditions
XX	AAT50633	associated with abnormal levels of CETP, specifically atherosclerosis,
XX	AAT50634	peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,
XX	AAT50635	familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular
XX	AAT50636	complications of diabetes, transplant, atherectomy and angioplasty
XX	AAT50637	restenosis. By inhibiting CETP, the levels of HDL and low density
XX	AAT50638	lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a
XX	AAT50639	decrease in LDL levels, and a corresponding increase in HDL levels). The
XX	AAT50640	ribozymes can also be used diagnostically to study genetic drift and
XX	AAT50641	mutations in diseased cells, and to detect CETP mRNA. As the ribozymes
XX	AAT50642	target specific regions of the CETP gene, they have low non-specific
XX	AAT50643	activity.
XX	AAT50644	Sequence 18 BP; 3 A; 7 C; 6 G; 2 U; 0 other;
XX	AAT50645	Query Match 1.0%; Score 18; DB 17; Length 18;
XX	AAT50646	Best Local Similarity 88.9%; Pred. No. 91;
XX	AAT50647	Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
XX	AAT50648	QY 90 ctgaacgcgucggccac 107

Query Match 1.0%; Score 18; DB 17; Length 18;  
Best Local Similarity 83.3%; Pred. NO. 91;  
Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

OY 113 caccactgcgtgataacc 130  
Db 1 caccacugccugauaacc 18

RESULT 12  
AAT50599  
ID AAT50599 standard; RNA; 18 BP.  
XX  
AC AAT50599;  
XX  
DT 10-MAR-1997 (first entry)  
XX  
DE Human CETP hairpin ribozyme target sequence #145.  
XX  
KW Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;  
KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;  
KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;  
KW familial hypercholesterolaemia; dyslipidaemia; hypoalipoproteinaemia;  
KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;  
KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;  
KW LDL; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO9620279-A1.  
XX  
PD 04-JUL-1996.  
XX  
PF 11-DEC-1995; 95WO-US16000.  
XX  
PR 23-DEC-1994; 94US-0363240.  
XX  
PA (RIBO-) RIBOZYME PHARM INC.  
PA (WARN) WARNER LAMBERT CO.  
XX  
PI Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;  
XX WPI; 1996-321852/32.  
XX  
PT New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA  
PT - useful for preventing or treating initial development, progression  
PT or regression of vascular diseases, esp. familial  
PT hypercholesterolaemia  
XX  
PS Claim 4; Page 52; 72pp; English.

AAT50595-T50642 represent target sequences for the human cholesterol  
ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).  
CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer  
between plasma lipoproteins. The numbering of the targets refers to the  
position of the cleavage site in full length CETP. The ribozyme then  
binds to 4-6 nucleotides 5', and a variable number 3' of this site. The  
ribozymes are able to cleave mRNA from the gene encoding CETP, thereby  
blocking synthesis and/or expression of the mRNA. By inhibiting CETP,  
the reverse cholesterol transport (RCT) pathway can be inhibited (or  
eliminated) thereby preventing the reduction in size density of the high  
density lipoproteins (HDL), prolonging HDL half life, and therefore  
increasing HDL levels. The ribozymes can be used to treat conditions  
associated with abnormal levels of CETP, specifically atherosclerosis,  
peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,  
familial hypercholesterolaemia, hypoalipoproteinaemia, vascular  
complications of diabetes, transplant, atherectomy and angioplastic  
restenosis. By inhibiting CETP, the levels of HDL and low density  
lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a  
decrease in LDL levels, and a corresponding increase in HDL levels). The  
ribozymes can also be used diagnostically to study genetic drift and  
mutations in diseased cells, and to detect CETP mRNA. As the ribozymes  
target specific regions of the CETP gene, they have low non-specific

CC activity.  
XX  
SQ Sequence 18 BP; 3 A; 8 C; 3 G; 4 U; 0 other;  
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Query Match 1.0%; Score 18; DB 17; Length 18;  
Best Local Similarity 77.8%; Pred. NO. 91;  
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

OY 139 tgccacagtcctgaccct 156  
Db 1 ugccacaguccugaccct 18

RESULT 13  
AAT50600  
ID AAT50600 standard; RNA; 18 BP.  
XX  
AC AAT50600;  
XX  
DT 10-MAR-1997 (first entry)  
XX  
DE Human CETP hairpin ribozyme target sequence #150.  
XX  
KW Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;  
KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;  
KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;  
KW familial hypercholesterolaemia; dyslipidaemia; hypoalipoproteinaemia;  
KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;  
KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;  
KW LDL; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO9620279-A1.  
XX  
PD 04-JUL-1996.  
XX  
PF 11-DEC-1995; 95WO-US16000.  
XX  
PR 23-DEC-1994; 94US-0363240.  
XX  
PA (RIBO-) RIBOZYME PHARM INC.  
PA (WARN) WARNER LAMBERT CO.  
XX  
PI Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;  
XX WPI; 1996-321852/32.  
XX  
PT New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA  
PT - useful for preventing or treating initial development, progression  
PT or regression of vascular diseases, esp. familial  
PT hypercholesterolaemia  
XX  
PS Claim 4; Page 52; 72pp; English.

AAT50595-T50642 represent target sequences for the human cholesterol  
ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).  
CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer  
between plasma lipoproteins. The numbering of the targets refers to the  
position of the cleavage site in full length CETP. The ribozyme then  
binds to 4-6 nucleotides 5', and a variable number 3' of this site. The  
ribozymes are able to cleave mRNA from the gene encoding CETP, thereby  
blocking synthesis and/or expression of the mRNA. By inhibiting CETP,  
the reverse cholesterol transport (RCT) pathway can be inhibited (or  
eliminated) thereby preventing the reduction in size density of the high  
density lipoproteins (HDL), prolonging HDL half life, and therefore  
increasing HDL levels. The ribozymes can be used to treat conditions  
associated with abnormal levels of CETP, specifically atherosclerosis,  
peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,  
familial hypercholesterolaemia, hypoalipoproteinaemia, vascular  
complications of diabetes, transplant, atherectomy and angioplastic  
restenosis. By inhibiting CETP, the levels of HDL and low density  
lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a  
decrease in LDL levels, and a corresponding increase in HDL levels). The  
ribozymes can also be used diagnostically to study genetic drift and  
mutations in diseased cells, and to detect CETP mRNA. As the ribozymes  
target specific regions of the CETP gene, they have low non-specific

associated with abnormal levels of CETP, specifically atherosclerosis, peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia, familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular complications of diabetes, transplant, atherectomy and angioplasty stenosis. By inhibiting CETP, the levels of HDL and low density lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a decrease in LDL levels, and a corresponding increase in HDL levels). The ribozymes can also be used diagnostically to study genetic drift and mutations in diseased cells, and to detect CETP mRNA. As the ribozymes target specific regions of the CETP gene, they have low non-specific activity.

Sequence 18 BP; 2 A; 5 C; 7 G; 4 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;  
Best Local Similarity 77.8%; Pred. No. 91;  
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 156 tggccctgctgggcaatg 173  
:||||:||||:||||:|  
Db 1 ugccccugcugggcaaa 18

RESULT 15  
AAT50602  
ID AAT50602 standard; RNA; 18 BP.  
AC AAT50602;  
XX  
XX  
XX 10-MAR-1997 (first entry)  
XX Human CETP hairpin ribozyme target sequence #182.  
XX  
XX Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;  
KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;  
KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;  
KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;  
KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;  
KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;  
KW LDL; ss.  
XX  
XX Homo sapiens.  
OS  
XX  
XX WO9620279-A1.  
PN  
XX  
XX 04-JUL-1996.  
PD  
XX  
XX 11-DEC-1995; 95WO-US16000.  
PF  
XX  
XX 23-DEC-1994; 94US-0363240.  
PR  
XX  
XX (RIBO-) RIBOZYME PHARM INC.  
PA (WARN ) WARNER LAMBERT CO.  
PA  
XX  
XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;  
PI WPI; 1996-321852/32.  
DR  
XX  
XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA  
PT - useful for preventing or treating initial development, progression  
PT or regression of vascular diseases, esp. familial  
PT hypercholesterolaemia  
XX  
XX Claim 4; Page 52; 72pp; English.

AAT50595-T50642 represent target sequences for the human cholesterol ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594). CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer between plasma lipoproteins. The numbering of the targets refers to the position of the cleavage site in full length CETP. The ribozyme then binds to 4-6 nucleotides 5', and a variable number 3' of this site. The ribozymes are able to cleave mRNA from the gene encoding CETP, thereby blocking synthesis and/or expression of the mRNA. By inhibiting CETP, the reverse cholesterol transport (RCT) pathway can be inhibited (or eliminated) thereby preventing the reduction in size density of the high density lipoproteins (HDL), prolonging HDL half life, and therefore increasing HDL levels. The ribozymes can be used to treat conditions

lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a decrease in LDL levels, and a corresponding increase in HDL levels). The ribozymes can also be used diagnostically to study genetic drift and mutations in diseased cells, and to detect CETP mRNA. As the ribozymes target specific regions of the CETP gene, they have low non-specific activity.

Sequence 18 BP; 2 A; 9 C; 4 G; 3 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;  
Best Local Similarity 83.3%; Pred. No. 91;  
Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 144 cagtcctgaccctggccc 161  
||||:||||:|||||  
Db 1 caguccgaccggccc 18

RESULT 14  
AAT50601  
ID AAT50601 standard; RNA; 18 BP.  
AC AAT50601;  
XX  
XX  
XX 10-MAR-1997 (first entry)  
XX Human CETP hairpin ribozyme target sequence #162.  
XX  
XX Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;  
KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;  
KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;  
KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;  
KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;  
KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;  
KW LDL; ss.  
XX  
XX Homo sapiens.  
OS  
XX  
XX WO9620279-A1.  
PN  
XX  
XX 04-JUL-1996.  
PD  
XX  
XX 11-DEC-1995; 95WO-US16000.  
PF  
XX  
XX 23-DEC-1994; 94US-0363240.  
PR  
XX  
XX (RIBO-) RIBOZYME PHARM INC.  
PA (WARN ) WARNER LAMBERT CO.  
PA  
XX  
XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;  
PI WPI; 1996-321852/32.  
DR  
XX  
XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA  
PT - useful for preventing or treating initial development, progression  
PT or regression of vascular diseases, esp. familial  
PT hypercholesterolaemia  
XX  
XX Claim 4; Page 52; 72pp; English.

AAT50595-T50642 represent target sequences for the human cholesterol ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594). CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer between plasma lipoproteins. The numbering of the targets refers to the position of the cleavage site in full length CETP. The ribozyme then binds to 4-6 nucleotides 5', and a variable number 3' of this site. The ribozymes are able to cleave mRNA from the gene encoding CETP, thereby blocking synthesis and/or expression of the mRNA. By inhibiting CETP, the reverse cholesterol transport (RCT) pathway can be inhibited (or eliminated) thereby preventing the reduction in size density of the high density lipoproteins (HDL), prolonging HDL half life, and therefore increasing HDL levels. The ribozymes can be used to treat conditions

Mon Apr 22 08:31:48 2002

CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP, the reverse cholesterol transport (RCT) pathway can be inhibited (or eliminated) thereby preventing the reduction in size density of the high density lipoproteins (HDL), prolonging HDL half life, and therefore increasing HDL levels. The ribozymes can be used to treat conditions associated with abnormal levels of CETP, specifically atherosclerosis, peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia, familial hypercholesterolaemia, hypopaliproteinaemia, vascular complications of diabetes, transplant, atherectomy and angioplasty restenosis. By inhibiting CETP, the levels of HDL and low density lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a decrease in LDL levels, and a corresponding increase in HDL levels). The ribozymes can also be used diagnostically to study genetic drift and mutations in diseased cells, and to detect CETP mRNA. As the ribozymes target specific regions of the CETP gene, they have low non-specific activity.

CC Sequence 18 BP; 4 A; 7 C; 4 G; 3 U; 0 other;

XX Query Match 1.0%; Score 18; DB 17; Length 18;

SQ Best Local Similarity 83.3%; Pred. No. 91;

Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP, the reverse cholesterol transport (RCT) pathway can be inhibited (or eliminated) thereby preventing the reduction in size density of the high density lipoproteins (HDL), prolonging HDL half life, and therefore increasing HDL levels. The ribozymes can be used to treat conditions associated with abnormal levels of CETP, specifically atherosclerosis, peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia, familial hypercholesterolaemia, hypopaliproteinaemia, vascular complications of diabetes, transplant, atherectomy and angioplasty restenosis. By inhibiting CETP, the levels of HDL and low density lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a decrease in LDL levels, and a corresponding increase in HDL levels). The ribozymes can also be used diagnostically to study genetic drift and mutations in diseased cells, and to detect CETP mRNA. As the ribozymes target specific regions of the CETP gene, they have low non-specific activity.

CC Sequence 18 BP; 4 A; 7 C; 4 G; 3 U; 0 other;

XX Query Match 1.0%; Score 18; DB 17; Length 18;

SQ Best Local Similarity 83.3%; Pred. No. 91;

Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 176 catgctgtctcaaggc 193

Db 1 caugccugcuccaaggc 18

QY 176 catgctgtctcaaggc 193

Db 1 caugccugcuccaaggc 18

RESULT 16

AAT50603

ID AAT50603 standard; RNA; 18 BP.

XX AAT50603;

XX 10-MAR-1997 (first entry)

DE Human CETP hairpin ribozyme target sequence #235.

XX Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage; neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy; reverse cholesterol transport; high density lipoprotein; therapy; CETP; familial hypercholesterolaemia; dyslipidaemia; hypopaliproteinaemia; peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor; angioplasty restenosis; low density lipoprotein; diabetes; HDL; human; LDL; ss.

XX Homo sapiens.

XX WO9620279-A1.

PD 04-JUL-1996.

XX 11-DEC-1995; 95WO-US16000.

XX 23-DEC-1994; 94US-0363240.

PA (RIBO-) RIBOZYME PHARM INC.

PA (WARN) WARNER LAMBERT CO.

XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;

XX WPI; 1996-321852/32.

XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA - useful for preventing or treating initial development, progression or regression of vascular diseases, esp. familial hypercholesterolaemia

XX Claim 4; Page 52; 72pp; English.

XX AAT50595-T50642 represent target sequences for the human cholesterol ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).

RESULT 16

AAT50603

ID AAT50603 standard; RNA; 18 BP.

XX AAT50603;

XX 10-MAR-1997 (first entry)

DE Human CETP hairpin ribozyme target sequence #235.

XX Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage; neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy; reverse cholesterol transport; high density lipoprotein; therapy; CETP; familial hypercholesterolaemia; dyslipidaemia; hypopaliproteinaemia; peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor; angioplasty restenosis; low density lipoprotein; diabetes; HDL; human; LDL; ss.

XX Homo sapiens.

XX WO9620279-A1.

PD 04-JUL-1996.

XX 11-DEC-1995; 95WO-US16000.

XX 23-DEC-1994; 94US-0363240.

PA (RIBO-) RIBOZYME PHARM INC.

PA (WARN) WARNER LAMBERT CO.

XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;

XX WPI; 1996-321852/32.

XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA - useful for preventing or treating initial development, progression or regression of vascular diseases, esp. familial hypercholesterolaemia

XX Claim 4; Page 52; 72pp; English.

XX AAT50595-T50642 represent target sequences for the human cholesterol ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).

CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer between plasma lipoproteins. The numbering of the targets refers to the position of the cleavage site in full length CETP. The ribozyme then binds to 4-6 nucleotides 5', and a variable number 3' of this site. The ribozymes are able to cleave mRNA from the gene encoding CETP, thereby blocking synthesis and/or expression of the mRNA. By inhibiting CETP, the reverse cholesterol transport (RCT) pathway can be inhibited (or eliminated) thereby preventing the reduction in size density of the high density lipoproteins (HDL), prolonging HDL half life, and therefore increasing HDL levels. The ribozymes can be used to treat conditions associated with abnormal levels of CETP, specifically atherosclerosis, peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia, familial hypercholesterolaemia, hypopaliproteinaemia, vascular complications of diabetes, transplant, atherectomy and angioplasty restenosis. By inhibiting CETP, the levels of HDL and low density lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a decrease in LDL levels, and a corresponding increase in HDL levels). The ribozymes can also be used diagnostically to study genetic drift and mutations in diseased cells, and to detect CETP mRNA. As the ribozymes target specific regions of the CETP gene, they have low non-specific activity.

CC Sequence 18 BP; 2 A; 8 C; 4 G; 4 U; 0 other;

XX Query Match 1.0%; Score 18; DB 17; Length 18;

SQ Best Local Similarity 77.8%; Pred. No. 91;

Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 229 caagcctgcctcctggt 246

Db 1 caagccugcuccuuggu 18

RESULT 17

AAT50604

ID AAT50604 standard; RNA; 18 BP.

XX AAT50604;

XX 10-MAR-1997 (first entry)

DE Human CETP hairpin ribozyme target sequence #276.

XX Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage; neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy; reverse cholesterol transport; high density lipoprotein; therapy; CETP; familial hypercholesterolaemia; dyslipidaemia; hypopaliproteinaemia; peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor; angioplasty restenosis; low density lipoprotein; diabetes; HDL; human; LDL; ss.

XX Homo sapiens.

XX WO9620279-A1.

PD 04-JUL-1996.

XX 11-DEC-1995; 95WO-US16000.

XX 23-DEC-1994; 94US-0363240.

PA (RIBO-) RIBOZYME PHARM INC.

PA (WARN) WARNER LAMBERT CO.

XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;

XX WPI; 1996-321852/32.

XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA - useful for preventing or treating initial development, progression or regression of vascular diseases, esp. familial hypercholesterolaemia

Claim 4; Page 52; 72pp; English.

AA050595-T50642 represent target sequences for the human cholesterol ester transfer protein (CETP) apolipoprotein (see AA050547-T50594). CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer to the between plasma lipoproteins. The numbering of the targets refers to the position of the cleavage site in full length CETP. The ribozyme then binds to 4-6 nucleotides 5', and a variable number 3' of this site. The ribozymes are able to cleave mRNA from the gene encoding CETP, thereby blocking synthesis and/or expression of the mRNA. By inhibiting CETP, the reverse cholesterol transport (RCT) pathway can be inhibited (or eliminated) thereby preventing the reduction in size density of the high density lipoproteins (HDL), prolonging HDL half life, and therefore increasing HDL levels. The ribozymes can be used to treat conditions associated with abnormal levels of CETP, specifically atherosclerosis, peripheral vascular disease, hyperbetalipoproteinemia, dyslipidemia, familial hypercholesterolaemia, hypobetalipoproteinemia, vascular complications of diabetes, transplant, atherectomy and angioplasty restenosis. By inhibiting CETP, the levels of HDL and low density lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a decrease in LDL levels, and a corresponding increase in HDL levels). The ribozymes can also be used diagnostically to study genetic drift and mutations in diseased cells, and to detect CETP mRNA. As the ribozymes target specific regions of the CETP gene, they have low non-specific activity.

Sequence 18 BP; 3 A; 8 C; 3 G; 4 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;  
Best Local Similarity 77.8%; Pred. No. 91;

Dy	270	tgatccagacgccttc	287
	:		
Db	1	gauccagaccgucc	18
RESULT 18			
ID	AAT50605	standard; RNA; 18 BP..	
XX	AAT50605;		
XX	10-MAR-1997	(first entry)	
XX	Human CERP hairpin ribozyme target sequence #280.		
DE	Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;		
XX	neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;		
KW	reverse cholesterol transport; high density lipoprotein; therapy; CERP;		
KW	familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;		
KW	peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;		
KW	angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;		
XX	LDL; ss.		
XX	Homo sapiens.		
OS	WO9620279-A1.		
PN	04-JUL-1996.		
PD	11-DEC-1995;	95WO-US16000.	
XX	23-DEC-1994;	94US-0363240.	
XX	(RIBO-) RIBOZYME PHARM INC.		
PA	(WARN) WARNER LAMBERT CO.		
XX	Bisgaler C, Couture L, McSwiggen J, Pape M, Stinchcomb D;		
PI	WIPI; 1996-321852/32.		
DR			



peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor; angioplastic restenosis; low density lipoprotein; diabetes; HDL; human; LDL; ss.

**Homo sapiens.**

WO9620279-A1.

04-JUL-1996.

11-DEC-1995: 95WO-US16000.

23-DEC-1994: 94US-0363240.

(RIBO-) RIBOZYME PHARM INC.  
(WARN) WARNER LAMBERT CO.

McSwiggan J. Pape M. Stinchcomb D;

100-331053-23

New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA  
- useful for preventing or treating initial development, progression  
or regression of vascular diseases, esp. familial  
hypercholesterolaemia

claim 4: page 52: 72pp: English: English.

AAT50595-T50642 represent target sequences for the human cholesterol ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594). CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer between plasma lipoproteins. The numbering of the targets refers to the position of the cleavage site in full length CETP. The ribozyme then binds to 4-6 nucleotides 5', and a variable number 3' of this site. The ribozymes are able to cleave mRNA from the gene encoding CETP, thereby blocking synthesis and/or expression of the mRNA. By inhibiting CETP, the reverse cholesterol transport (RCT) pathway can be inhibited (or eliminated) thereby preventing the reduction in size density of the high density lipoproteins (HDL), prolonging HDL half life, and therefore increasing HDL levels. The ribozymes can be used to treat conditions, associated with abnormal levels of CETP, specifically atherosclerosis, peripheral vascular disease, hyperbetalipoproteinemia, dyslipidaemia, familial hypercholesterolaemia, hypofamilipoproteinemia, vascular complications of diabetes, transplant, atherectomy and angioplasty restenosis. By inhibiting CETP, the levels of HDL and low density lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a decrease in LDL levels, and a corresponding increase in HDL levels). The ribozymes can also be used diagnostically to study genetic drift and mutations in diseased cells, and to detect CETP mRNA. As the ribozymes target specific regions of the CETP gene, they have low non-specific activity.

continued 10 BP: 7 A: 8 C: 1 G: 2 U: 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;  
Best Local Similarity 88.9%; Pred. No. 91;  
Matches 16; Conservative 2; Mismatches 0; Indels

546 acctccagatcaacacac 563

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RESULT 23

AAT50610

AA-T50610 STANDARD, RNA, 10 B

AC AAT50610;

10-MAR-1997 (first entry)

XX  
DE Human CESTP hairpin ribozyme target sequence #564.

PN WO9620279-A1.

04-JUL-1996

XX  
PF 11-DEC-1995: 95WO-US16000.

23-DEC-1994: 94US-0363240.

XX (RIBO-) RIBOZYME PHARM INC.  
PA (WARN) WARNER LAMBERT CO.  
PA

[illegible]

XX

XX new ribozyme(s) for cleaving cholesterol ester transfer protein mRNA  
PT - useful for preventing or treating initial development, progression  
PT or regression of vascular diseases, esp. familial  
PT hypercholesterolaemia

XX  
pc  
claim 4. page 52: 72pp: English.

AAAT50595-T50642 represent target sequences for the human cholesterol ester transfer protein (CETP) hairpin ribozymes (see AAAT50547-T50594). CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer between plasma lipoproteins. The numbering of the targets refers to the position of the cleavage site in full length CETP. The ribozyme then binds to 4-6 nucleotides 5', and a variable number 3' of this site. The ribozymes are able to cleave mRNA from the gene encoding CETP, thereby blocking synthesis and/or expression of the mRNA. By inhibiting CETP, the reverse cholesterol transport (RCT) pathway can be inhibited (or eliminated) thereby preventing the reduction in size density of the high density lipoproteins (HDL), prolonging HDL half life, and therefore increasing HDL levels. The ribozymes can be used to treat conditions associated with abnormal levels of CETP, specifically atherosclerosis, peripheral vascular disease, hyperbetalipoproteinemia, dyslipidaemia, familial hypercholesterolaemia, hypopalipoproteinemia, vascular complications of diabetes, transplant, athetosis and angioplastic restenosis. By inhibiting CETP, the levels of HDL and low density lipoproteins (LDL) and the HDL:LDL ratio are favourably altered (a decrease in LDL levels, and a corresponding increase in HDL levels). Ribozymes can also be used diagnostically to study genetic drift and mutations in diseased cells, and to detect CETP mRNA. As the ribozymes target specific regions of the CETP gene, they have low non-specific activity.

**XX**

Query Match 1.0%; Score 18; DB 17; Length 18;  
Best Local Similarity 61.1%; Pred. No. 91;  
Matches 11; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

0v 507 ttgatcagttccatttqact 524

**RESULT** 22

AAT50609

AA150609 STAMPAIO, KNR, 10 DI:  
ID  
YY

AC AAT50609;

10-MAR-1997 (first entry)

XX comp target sequence #552:

XX Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;  
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;  
 KW reverse cholesterol transport; high density lipoprotein; therapy; CRP;  
 KW familial hypercholesterolaemia; dyslipidaemia; hypolipalphoproteinaemia;  
 KW



XX KW Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;  
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;  
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;  
 KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;  
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;  
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;  
 KW LDL; ss.  
 XX OS Homo sapiens.  
 XX PN W09620279-A1.  
 XX PD 04-JUL-1996.  
 XX PF 11-DEC-1995; 95WO-US16000.  
 XX PR 23-DEC-1994; 94US-0363240.  
 XX PA (RIBO-) RIBOZYME PHARM INC.  
 XX PA (WARN) WARNER LAMBERT CO.  
 XX PI Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;  
 XX DR WPI; 1996-321852/32.  
 XX PT New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA  
 PT - useful for preventing or treating initial development, progression  
 PT or regression of vascular diseases, esp. familial  
 PT hypercholesterolaemia  
 XX PS Claim 4; Page 52; 72pp; English.  
 XX CC AAT50595-T50642 represent target sequences for the human cholesterol  
 CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).  
 CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer  
 CC between plasma lipoproteins. The numbering of the targets refers to the  
 CC position of the cleavage site in full length CETP. The ribozyme then  
 CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The  
 CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby  
 CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,  
 CC the reverse cholesterol transport (RCT) pathway can be inhibited (or  
 CC eliminated) thereby preventing the reduction in size density of the high  
 CC density lipoproteins (HDL), prolonging HDL half life, and therefore  
 CC increasing HDL levels. The ribozymes can be used to treat conditions  
 CC associated with abnormal levels of CETP, specifically atherosclerosis,  
 CC peripheral vascular disease, hyperbetalipoproteinaemia, vascular  
 CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, dyslipidaemia,  
 CC complications of diabetes, transplant, atherectomy and angioplastic  
 CC restenosis. By inhibiting CETP, the levels of HDL and low density  
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a  
 CC decrease in LDL levels, and a corresponding increase in HDL levels). The  
 CC ribozymes can also be used diagnostically to study genetic drift and  
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes  
 CC target specific regions of the CETP gene, they have low non-specific  
 CC activity.  
 XX SQ Sequence 18 BP; 5 A; 6 C; 4 G; 3 U; 0 other;  
 Query Match 1.0%; Score 18; DB 17; Length 18;  
 Best Local Similarity 83.3%; Pred. No. 91;  
 Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;  
 QY 558 acacacgtgacctgtg 575  
 Db 1 acacacgacgacgacg 18  
 RESULT 24  
 AAT50611  
 ID AAT50611 standard; RNA; 18 BP.  
 XX

AC AAT50611;  
 XX 10-MAR-1997 (first entry)  
 XX DE Human CETP hairpin ribozyme target sequence #567.  
 XX KW Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;  
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;  
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;  
 KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;  
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;  
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;  
 KW LDL; ss.  
 XX OS Homo sapiens.  
 XX PN W09620279-A1.  
 XX PD 04-JUL-1996.  
 XX PF 11-DEC-1995; 95WO-US16000.  
 XX PR 23-DEC-1994; 94US-0363240.  
 XX PA (RIBO-) RIBOZYME PHARM INC.  
 XX PA (WARN) WARNER LAMBERT CO.  
 XX PI Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;  
 XX DR WPI; 1996-321852/32.  
 XX PT New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA  
 PT - useful for preventing or treating initial development, progression  
 PT or regression of vascular diseases, esp. familial  
 PT hypercholesterolaemia  
 XX PS Claim 4; Page 52; 72pp; English.  
 XX CC AAT50595-T50642 represent target sequences for the human cholesterol  
 CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).  
 CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer  
 CC between plasma lipoproteins. The numbering of the targets refers to the  
 CC position of the cleavage site in full length CETP. The ribozyme then  
 CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The  
 CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby  
 CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,  
 CC the reverse cholesterol transport (RCT) pathway can be inhibited (or  
 CC eliminated) thereby preventing the reduction in size density of the high  
 CC density lipoproteins (HDL), prolonging HDL half life, and therefore  
 CC increasing HDL levels. The ribozymes can be used to treat conditions  
 CC associated with abnormal levels of CETP, specifically atherosclerosis,  
 CC peripheral vascular disease, hyperbetalipoproteinaemia, vascular  
 CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, dyslipidaemia,  
 CC complications of diabetes, transplant, atherectomy and angioplastic  
 CC restenosis. By inhibiting CETP, the levels of HDL and low density  
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a  
 CC decrease in LDL levels, and a corresponding increase in HDL levels). The  
 CC ribozymes can also be used diagnostically to study genetic drift and  
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes  
 CC target specific regions of the CETP gene, they have low non-specific  
 CC activity.  
 XX SQ Sequence 18 BP; 4 A; 6 C; 4 G; 4 U; 0 other;  
 Query Match 1.0%; Score 18; DB 17; Length 18;  
 Best Local Similarity 77.8%; Pred. No. 91;  
 Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
 QY 561 cacagctgacctgtgact 578  
 Db 1 cacagcugaccugacug 18

QY 585 gagtgcggaccgatgcc 602  
 |||:|||||||:||||  
 Db 1 gagugcgaccgaugccc 18  
  
 RESULT 26  
 AAT50613  
 ID AAT50613 standard; RNA; 18 BP.  
 XX AC AAT50613;  
 XX DT 10-MAR-1997 (first entry)  
 XX DE Human CETP hairpin ribozyme target sequence #595.  
 XX KW Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;  
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;  
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;  
 KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;  
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;  
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;  
 KW LDL; ss.  
 XX OS Homo sapiens.  
 XX PN W09620279-A1.  
 XX PD 04-JUL-1996.  
 XX PF 11-DEC-1995; 95WO-US16000.  
 XX PR 23-DEC-1994; 94US-0363240.  
 XX PA (RIBO-) RIBOZYME PHARM INC.  
 XX PA (WARN ) WARNER LAMBERT CO.  
 XX PI Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;  
 XX WPI; 1996-321852/32.  
 XX PT New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA  
 PT - useful for preventing or treating initial development, progression  
 PT or regression of vascular diseases, esp. familial  
 PT hypercholesterolaemia  
 XX PS Claim 4; Page 53; 72pp; English.  
 XX CC AAT50595-T50642 represent target sequences for the human cholesterol  
 CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).  
 CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer  
 CC between plasma lipoproteins. The numbering of the targets refers to the  
 CC position of the cleavage site in full length CETP. The ribozyme then  
 CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The  
 CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby  
 CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,  
 CC the reverse cholesterol transport (RCT) pathway can be inhibited (or  
 CC eliminated) thereby preventing the reduction in size density of the high  
 CC density lipoproteins (HDL), prolonging HDL half life, and therefore  
 CC increasing HDL levels. The ribozymes can be used to treat conditions  
 CC associated with abnormal levels of CETP, specifically atherosclerosis,  
 CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,  
 CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular  
 CC complications of diabetes, transplant, atherectomy and angioplastic  
 CC restenosis. By inhibiting CETP, the levels of HDL and low density  
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a  
 CC decrease in LDL levels, and a corresponding increase in HDL levels). The  
 CC ribozymes can also be used diagnostically to study genetic drift and  
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes  
 CC target specific regions of the CETP gene, they have low non-specific  
 CC activity.  
 XX Sequence 18 BP; 3 A; 6 C; 7 G; 2 U; 0 other;  
 XX SQ

RESULT 25  
 AAT50612  
 ID AAT50612 standard; RNA; 18 BP.  
 XX AC AAT50612;  
 XX DT 10-MAR-1997 (first entry)  
 XX DE Human CETP hairpin ribozyme target sequence #591.  
 XX KW Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;  
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;  
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;  
 KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;  
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;  
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;  
 KW LDL; ss.  
 XX OS Homo sapiens.  
 XX PN W09620279-A1.  
 XX PD 04-JUL-1996.  
 XX PF 11-DEC-1995; 95WO-US16000.  
 XX PR 23-DEC-1994; 94US-0363240.  
 XX PA (RIBO-) RIBOZYME PHARM INC.  
 XX PA (WARN ) WARNER LAMBERT CO.  
 XX PI Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;  
 XX WPI; 1996-321852/32.  
 XX PT New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA  
 PT - useful for preventing or treating initial development, progression  
 PT or regression of vascular diseases, esp. familial  
 PT hypercholesterolaemia  
 XX PS Claim 4; Page 53; 72pp; English.  
 XX CC AAT50595-T50642 represent target sequences for the human cholesterol  
 CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).  
 CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer  
 CC between plasma lipoproteins. The numbering of the targets refers to the  
 CC position of the cleavage site in full length CETP. The ribozyme then  
 CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The  
 CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby  
 CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,  
 CC the reverse cholesterol transport (RCT) pathway can be inhibited (or  
 CC eliminated) thereby preventing the reduction in size density of the high  
 CC density lipoproteins (HDL), prolonging HDL half life, and therefore  
 CC increasing HDL levels. The ribozymes can be used to treat conditions  
 CC associated with abnormal levels of CETP, specifically atherosclerosis,  
 CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,  
 CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular  
 CC complications of diabetes, transplant, atherectomy and angioplastic  
 CC restenosis. By inhibiting CETP, the levels of HDL and low density  
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a  
 CC decrease in LDL levels, and a corresponding increase in HDL levels). The  
 CC ribozymes can also be used diagnostically to study genetic drift and  
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes  
 CC target specific regions of the CETP gene, they have low non-specific  
 CC activity.  
 XX Sequence 18 BP; 3 A; 6 C; 7 G; 2 U; 0 other;  
 XX SQ

Query Match 1.0%; Score 18; DB 17; Length 18;  
 Best Local Similarity 88.9%; Pred. No. 91;  
 Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Mon Apr 22 08:31:48 2002

CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes  
CC target specific regions of the CETP gene, they have low non-specific  
CC activity.  
XX Sequence 18 BP; 2 A; 8 C; 3 G; 5 U; 0 other;  
SQ

Query Match 1.0%; Score 18; DB 17; Length 18;  
Best Local Similarity 88.9%; Pred. No. 91;  
Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 589 gcggaccgagcctgca 606  
Db 1 gcggaccgagcctgca 18

RESULT 27

AAT50614  
ID AAT50614 standard; RNA; 18 BP.

XX AAT50614;

XX 10-MAR-1997 (first entry)

DE Human CETP hairpin ribozyme target sequence #604.

XX Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;  
KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;  
KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;  
KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;  
KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;  
KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;  
KW LDL; ss.

XX Homo sapiens.

OS WO9620279-A1.

XX 04-JUL-1996.

XX 11-DEC-1995; 95WO-US16000.

XX 23-DEC-1994; 94US-0363240.

XX (RIBO-) RIBOZYME PHARM INC.

PA (WARN) WARNER LAMBERT CO.

PI Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;

XX WPI; 1996-321852/32.

XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA  
PT - useful for preventing or treating initial development, progression  
PT or regression of vascular diseases, esp. familial  
PT hypercholesterolaemia

XX Claim 4; Page 53; 72pp; English.

XX AAT50595-T50642 represent target sequences for the human cholesterol  
CC ester transfer protein (CEP) hairpin ribozymes (see AAT50547-T50594).  
CC CEP is a 74 kb glycoprotein that facilitates neutral lipid transfer  
CC between plasma lipoproteins. The numbering of the targets refers to the  
CC position of the cleavage site in full length CEP. The ribozyme then  
CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The  
CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby  
CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,  
CC the reverse cholesterol transport (RCT) pathway can be inhibited (or  
CC eliminated) thereby preventing the reduction in size density of the high  
CC density lipoproteins (HDL), prolonging HDL half life, and therefore  
CC increasing HDL levels. The ribozymes can be used to treat conditions  
CC associated with abnormal levels of CETP, specifically atherosclerosis,  
CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,  
CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular  
CC complications of diabetes, transplant, atherectomy and angioplasty  
CC restenosis. By inhibiting CETP, the levels of HDL and low density  
CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a  
CC decrease in LDL levels, and a corresponding increase in HDL levels). The  
CC ribozymes can also be used diagnostically to study genetic drift and

Query Match 1.0%; Score 18; DB 17; Length 18;  
Best Local Similarity 72.2%; Pred. No. 91;  
Matches 13; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 598 tgccctgactgctacct 615

Db 1 ugccccgacugcuaccu 18

RESULT 28

AAT50615  
ID AAT50615 standard; RNA; 18 BP.

XX AAT50615;

XX 10-MAR-1997 (first entry)

DE Human CETP hairpin ribozyme target sequence #615.

XX Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;  
KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;  
KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;  
KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;  
KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;  
KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;  
KW LDL; ss.

XX Homo sapiens.

OS WO9620279-A1.

XX 04-JUL-1996.

XX 11-DEC-1995; 95WO-US16000.

XX 23-DEC-1994; 94US-0363240.

XX (RIBO-) RIBOZYME PHARM INC.

PA (WARN) WARNER LAMBERT CO.

PI Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;

XX WPI; 1996-321852/32.

XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA  
PT - useful for preventing or treating initial development, progression  
PT or regression of vascular diseases, esp. familial  
PT hypercholesterolaemia

XX Claim 4; Page 53; 72pp; English.

XX AAT50595-T50642 represent target sequences for the human cholesterol  
CC ester transfer protein (CEP) hairpin ribozymes (see AAT50547-T50594).  
CC CEP is a 74 kb glycoprotein that facilitates neutral lipid transfer  
CC between plasma lipoproteins. The numbering of the targets refers to the  
CC position of the cleavage site in full length CEP. The ribozyme then  
CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The  
CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby  
CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,  
CC the reverse cholesterol transport (RCT) pathway can be inhibited (or  
CC eliminated) thereby preventing the reduction in size density of the high  
CC density lipoproteins (HDL), prolonging HDL half life, and therefore  
CC increasing HDL levels. The ribozymes can be used to treat conditions  
CC associated with abnormal levels of CETP, specifically atherosclerosis,  
CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,  
CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular

complications of diabetes, transplant, atherectomy and angioplastic restenosis. By inhibiting CETP, the levels of HDL and low density lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a decrease in LDL levels, and a corresponding increase in HDL levels). The ribozymes can also be used diagnostically to study genetic drift and mutations in diseased cells, and to detect CETP mRNA. As the ribozymes target specific regions of the CETP gene, they have low non-specific activity.

Sequence 18 BP: 3 A; 6 C; 2 G; 7 U; 0 other;

```
Query Match      1.09; Score 18; DB 17; Length 18;
Best Local Similarity 61.13; Pred. No. 91;
Matches 11; Conservative 7; Mismatches 0; Indels 0; Gaps 0;
```

Qy 609 gctacctgtctttccata 626  
||:||||:|:|:|:|:|  
pb 1 gcuaccugucuuuccaua 18

RESULT 29  
AAT50616  
ID AAT50616 standard: RNA: 18 BP.

**AAT50616:**

10-MAR-1997 (first entry)

Human cAMP hairpin ribozyme target sequence #630:

Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;  
 neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;  
 reverse cholesterol transport; high density lipoprotein; therapy; CRP;  
 familial hypercholesterolemia; dyslipidaemia; hypoparalipoproteinemia;  
 peripheral vascular disease; hyperbetalipoproteinemia; RCV; inhibitor;  
 angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;  
 LDL; ss.

**Homo sapiens.**

W09620279-A1.

04-III.-1996

11-DEC-1995. 0550-1516000

23-DEC-1994 : 04115-0363240

PHARMACY PHARM TNC

(WARN ) WARNER LAMBERT CO.

Bisgaier C, Couture L, McSwiggan J, Pape M, Stinchcomb D;

WPI: 1996-321852/32.

New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA  
- useful for preventing or treating initial development, progression  
or regression of vascular diseases, esp. familial  
hypercholesterolaemia

Claim 4: Page 53: 72pp: English.

AAAT50595-T50642 represent target sequences for the human cholesterol ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594). CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer between plasma lipoproteins. The numbering of the targets refers to the position of the cleavage site in full length CETP. The ribozyme then binds to 4-6 nucleotides 5', and a variable number 3' of this site. The ribozymes are able to cleave mRNA from the gene encoding CETP, thereby blocking synthesis and/or expression of the mRNA. By inhibiting CETP, the reverse cholesterol transport (RCT) pathway can be inhibited (or eliminated), thereby preventing the reduction in size density of the high

density lipoproteins (HDL), prolonging HDL half life, and therefore increasing HDL levels. The ribozymes can be used to treat conditions associated with abnormal levels of CETP, specifically atherosclerosis, peripheral vascular disease, hyperbetalipoproteinemia, dyslipidaemia, familial hypercholesterolaemia, hypolipidoproteinemia, vascular complications of diabetes, transplant, atherectomy and angioplastic restenosis. By inhibiting CETP, the levels of HDL and low density lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a decrease in LDL levels, and a corresponding increase in HDL levels). The ribozymes can also be used diagnostically to study genetic drift and mutations in diseased cells, and to detect CETP mRNA. As the ribozymes target specific regions of the CETP gene, they have low non-specific activity.

XX . sequence 18 BP: 4 A: 6 C: 3 G: 5 U: 0 other;  
CO

Query Match 1.0%; Score 18; DB 17; Length 18;  
Best Local Similarity 72.2%; Pred. No. 91;  
Matches 13; Conservative 5; Mismatches 0; Indels

Qy 624 ataagctgctcctgcac 641  
|:|:|:|:|:|:|:|:|  
Db 1 aaagcgcucccgcac 18

RESIST. 30

RESOL  
AAT50617

AA150017  
ID AAT50617 standard: RNA: 18 BP.

XX  
X  
NAME 0617.XX  
DE  
10-MAR-1997 (first entry)

XX

XX

neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy  
reverse cholesterol transport; high density lipoprotein; therapy; CETP;  
familial hypercholesterolaemia; dyslipidaemia; hypolipolipoproteinaemia;  
peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;  
angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;  
LDL; SS.

YY  
50  
Homo sapiens.

XX  
DN  
W09620279-A1

XX 04-777-1006

XX

XX

[illegible]

FR (KLEO) KLEBER  
PA (WARN) WARNER LAMBERT CO.

XX  
PT  
Discaior C Couture L.  
MXX  
 1006-331952/32

XX	New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
PT	- useful for preventing or treating initial development, progression
PT	or regression of vascular diseases, esp. familial
PT	hypercholesterolaemia

XX  
ps  
claim 4: page 53: 72pp: English.

XX  
CC AAT50595-T50642 represent target sequences for the human cholesterol  
CC ester transfer protein (CEP) hairpin ribozymes (see AAT50547-T50594).  
CC CEP is a 74 kD glycoprotein that facilitates neutral lipid transfer  
CC between plasma lipoproteins. The numbering of the targets refers to the  
CC position of the cleavage site in full length CEP. The ribozyme then

CC binds to 4-6 nucleotides 5', and a variable number 3' of this site.  
 CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby  
 CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,  
 CC the reverse cholesterol transport (RCT) pathway can be inhibited (or  
 CC eliminated) thereby preventing the reduction in size density of the high  
 CC density lipoproteins (HDL), prolonging HDL half life, and therefore  
 CC increasing HDL levels. The ribozymes can be used to treat conditions  
 CC associated with abnormal levels of CETP, specifically atherosclerosis,  
 CC peripheral hypercholesterolaemia, hyperbetalipoproteinaemia, dyslipidaemia,  
 CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular  
 CC complications of diabetes, transplant, atherectomy and angioplasty  
 CC restenosis. By inhibiting CETP, the levels of HDL and low density  
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a  
 CC decrease in LDL levels, and a corresponding increase in HDL levels). The  
 CC ribozymes can also be used diagnostically to study genetic drift and  
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes  
 CC target specific regions of the CETP gene, they have low non-specific  
 CC activity.  
 XX Sequence 18 BP; 6 A; 5 C; 3 G; 4 U; 0 other;  
 SQ

Query Match 1.0%; Score 18; DB 17; Length 18;  
 Best Local Similarity 77.8%; Pred. No. 91;  
 Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 669 tcaagcagctgttcacaa 686  
 Db 1 ucaagcagcuguacacaa 18  
 :|||||:|||||

RESULT 31  
 AAT50618  
 ID AAT50618 standard; RNA; 18 BP.

XX AAT50618;  
 XX 10-MAR-1997 (first entry)  
 XX Human CETP hairpin ribozyme target sequence #678.

XX Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;  
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;  
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;  
 KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;  
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;  
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;  
 KW LDL; ss.

XX Homo sapiens.  
 XX WO9620279-A1.  
 XX 04-JUL-1996.  
 XX 11-DEC-1995; 95WO-US16000.  
 XX 23-DEC-1994; 94US-0363240.  
 XX (RIBO-) RIBOZYME PHARM INC.  
 XX (WARN ) WARNER LAMBERT CO.  
 XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;  
 XX WPI; 1996-321852/32.

XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA  
 PT - useful for preventing or treating initial development, progression  
 PT or regression of vascular diseases, esp. familial  
 PT hypercholesterolaemia

PS Claim 4; Page 53; 72pp; English.

CC AAT50595-T50642 represent target sequences for the human cholesterol  
 CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).  
 CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer  
 CC between plasma lipoproteins. The numbering of the targets refers to the  
 CC position of the cleavage site in full length CETP. The ribozyme then  
 CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The  
 CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby  
 CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,  
 CC the reverse cholesterol transport (RCT) pathway can be inhibited (or  
 CC eliminated) thereby preventing the reduction in size density of the high  
 CC density lipoproteins (HDL), prolonging HDL half life, and therefore  
 CC increasing HDL levels. The ribozymes can be used to treat conditions  
 CC associated with abnormal levels of CETP, specifically atherosclerosis,  
 CC peripheral hypercholesterolaemia, hyperbetalipoproteinaemia, dyslipidaemia,  
 CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular  
 CC complications of diabetes, transplant, atherectomy and angioplasty  
 CC restenosis. By inhibiting CETP, the levels of HDL and low density  
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a  
 CC decrease in LDL levels, and a corresponding increase in HDL levels). The  
 CC ribozymes can also be used diagnostically to study genetic drift and  
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes  
 CC target specific regions of the CETP gene, they have low non-specific  
 CC activity.  
 XX Sequence 18 BP; 6 A; 4 C; 3 G; 5 U; 0 other;  
 SQ

Query Match 1.0%; Score 18; DB 17; Length 18;  
 Best Local Similarity 72.2%; Pred. No. 91;  
 Matches 13; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 672 agcagctgttcacaaatt 689  
 Db 1 agcagcuguacacaaau 18  
 :|||||:|||||

RESULT 32  
 AAT50619  
 ID AAT50619 standard; RNA; 18 BP.

XX AAT50619;  
 XX 10-MAR-1997 (first entry)  
 XX Human CETP hairpin ribozyme target sequence #726.

XX Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;  
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;  
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;  
 KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;  
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;  
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;  
 KW LDL; ss.

XX Homo sapiens.  
 XX WO9620279-A1.  
 XX 04-JUL-1996.  
 XX 11-DEC-1995; 95WO-US16000.  
 XX 23-DEC-1994; 94US-0363240.  
 XX (RIBO-) RIBOZYME PHARM INC.  
 XX (WARN ) WARNER LAMBERT CO.

XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;  
 XX WPI; 1996-321852/32.

XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA  
 PT - useful for preventing or treating initial development, progression

PT or regression of vascular diseases, esp. familial  
 PT hypercholesterolaemia

PS Claim 4; Page 53; 72pp; English.

XX AAT50595-T50642 represent target sequences for the human cholesterol  
 CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).  
 CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer  
 CC between plasma lipoproteins. The numbering of the targets refers to the  
 CC position of the cleavage site in full length CETP. The ribozyme then  
 CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The  
 CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby  
 CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,  
 CC the reverse cholesterol transport (RCT) pathway can be inhibited (or  
 CC eliminated) thereby preventing the reduction in size density of the high  
 CC density lipoproteins (HDL), prolonging HDL half life, and therefore  
 CC increasing HDL levels. The ribozymes can be used to treat conditions  
 CC associated with abnormal levels of CETP, specifically atherosclerosis,  
 CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,  
 CC familial hypercholesterolaemia, hypopalipoproteinaemia, vascular  
 CC complications of diabetes, transplant, atherectomy and angioplastic  
 CC restenosis. By inhibiting CETP, the levels of HDL and low density  
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a  
 CC decrease in LDL levels, and a corresponding increase in HDL levels). The  
 CC ribozymes can also be used diagnostically to study genetic drift and  
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes  
 CC target specific regions of the CETP gene, they have low non-specific  
 CC activity.

XX Sequence 18 BP; 7 A; 3 C; 6 G; 2 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;  
 Best Local Similarity 88.9%; Pred. No. 91;  
 Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 720 agggacagatctgcaag 737  
 Db |||||l:l:l:l:l:l:l:l

1 agggacagauugcaag 18

RESULT 33

AAT50620

ID AAT50620 standard; RNA; 18 BP.

XX AC AAT50620;

XX DT 10-MAR-1997 (first entry)

XX DE Human CETP hairpin ribozyme target sequence #766.

XX Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;  
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;  
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;  
 KW familial hypercholesterolaemia; dyslipidaemia; hypopalipoproteinaemia;  
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;  
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;  
 KW LDL; ss.

XX OS Homo sapiens.

XX PN WO9620279-A1.

XX PD 04-JUL-1996.

XX PF 11-DEC-1995; 95WO-US16000.

XX PR 23-DEC-1994; 94US-0363240.

XX (RIBO-) RIBOZYME PHARM INC.

PA (WARN ) WARNER LAMBERT CO.

XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;  
 PI

XX WPI; 1996-321852/32.

XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA  
 PT - useful for preventing or treating initial development, progression  
 PT or regression of vascular diseases, esp. familial  
 PT hypercholesterolaemia

PS Claim 4; Page 53; 72pp; English.

XX AAT50595-T50642 represent target sequences for the human cholesterol  
 CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).  
 CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer  
 CC between plasma lipoproteins. The numbering of the targets refers to the  
 CC position of the cleavage site in full length CETP. The ribozyme then  
 CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The  
 CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby  
 CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,  
 CC the reverse cholesterol transport (RCT) pathway can be inhibited (or  
 CC eliminated) thereby preventing the reduction in size density of the high  
 CC density lipoproteins (HDL), prolonging HDL half life, and therefore  
 CC increasing HDL levels. The ribozymes can be used to treat conditions  
 CC associated with abnormal levels of CETP, specifically atherosclerosis,  
 CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,  
 CC familial hypercholesterolaemia, hypopalipoproteinaemia, vascular  
 CC complications of diabetes, transplant, atherectomy and angioplastic  
 CC restenosis. By inhibiting CETP, the levels of HDL and low density  
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a  
 CC decrease in LDL levels, and a corresponding increase in HDL levels). The  
 CC ribozymes can also be used diagnostically to study genetic drift and  
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes  
 CC target specific regions of the CETP gene, they have low non-specific  
 CC activity.

XX Sequence 18 BP; 3 A; 5 C; 4 G; 6 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;  
 Best Local Similarity 66.7%; Pred. No. 91;  
 Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 760 catggcgattttgtcca 777  
 Db ||:||||l:l:l:l:l:l:l:l

1 cauggcgauuuugucca 18

RESULT 34

AAT50621

ID AAT50621 standard; RNA; 18 BP.

XX AC AAT50621;

XX DT 10-MAR-1997 (first entry)

XX Human CETP hairpin ribozyme target sequence #802.

XX Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;  
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;  
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;  
 KW familial hypercholesterolaemia; dyslipidaemia; hypopalipoproteinaemia;  
 KW peripheral hypercholesterolaemia; hyperbetalipoproteinaemia; RCT; inhibitor;  
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;  
 KW LDL; ss.

XX OS Homo sapiens.

XX PN WO9620279-A1.

XX PD 04-JUL-1996.

XX PF 11-DEC-1995; 95WO-US16000.

XX PR 23-DEC-1994; 94US-0363240.

XX PA (RIBO-) RIBOZYME PHARM INC.  
 XX PA (WARN ) WARNER LAMBERT CO.  
 XX PI Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;  
 XX XX WPI; 1996-321852/32.  
 XX  
 XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA  
 PT - useful for preventing or treating initial development, progression  
 PT or regression of vascular diseases, esp. familial  
 PT hypercholesterolaemia  
 XX  
 XX Claim 4; Page 53; 72pp; English.  
 XX  
 XX AAT50595-T50642 represent target sequences for the human cholesterol  
 CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).  
 CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer  
 CC between plasma lipoproteins. The numbering of the targets refers to the  
 CC position of the cleavage site in full length CETP. The ribozyme then  
 CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The  
 CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby  
 CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,  
 CC the reverse cholesterol transport (RCT) pathway can be inhibited (or  
 CC eliminated) thereby preventing the reduction in size density of the high  
 CC density lipoproteins (HDL), prolonging HDL half life, and therefore  
 CC increasing HDL levels. The ribozymes can be used to treat conditions  
 CC associated with abnormal levels of CETP, specifically atherosclerosis,  
 CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,  
 CC familial hypercholesterolaemia, hypopalipoproteinaemia, vascular  
 CC complications of diabetes, transplant, atherectomy and angioplastic  
 CC restenosis. By inhibiting CETP, the levels of HDL and low density  
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a  
 CC decrease in LDL levels, and a corresponding increase in HDL levels). The  
 CC ribozymes can also be used diagnostically to study genetic drift and  
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes  
 CC target specific regions of the CETP gene, they have low non-specific  
 CC activity.  
 XX  
 XX Sequence 18 BP; 5 A; 4 C; 4 G; 5 U; 0 other;  
 SQ

Query Match 1.0%; Score 18; DB 17; Length 18;  
 Best Local Similarity 72.2%; Pred. No. 91;  
 Matches 13; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 796 ccttcagatggagacat 813  
 DB 1 ccuucagaggagagacau 18  
 ||::|||:|||||:  
 ||::|||:|||||:

RESULT 35  
 AAT50622  
 ID AAT50622 standard; RNA; 18 BP.  
 XX  
 XX AAT50622;  
 XX  
 XX 10-MAR-1997 (first entry)  
 XX Human CETP hairpin ribozyme target sequence #853.  
 XX  
 XX Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;  
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;  
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;  
 KW familial hypercholesterolaemia; dyslipidaemia; hypopalipoproteinaemia;  
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;  
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;  
 KW LDL; ss.  
 XX  
 XX Homo sapiens.  
 OS  
 XX W09620279-Al.  
 PN  
 XX

PD 04-JUL-1996.  
 XX  
 XX 11-DEC-1995; 95WO-US16000.  
 XX  
 XX 23-DEC-1994; 94US-0363240.  
 XX  
 XX (RIBO-) RIBOZYME PHARM INC.  
 XX (WARN ) WARNER LAMBERT CO.  
 XX  
 XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;  
 XX WPI; 1996-321852/32.  
 XX  
 XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA  
 PT - useful for preventing or treating initial development, progression  
 PT or regression of vascular diseases, esp. familial  
 PT hypercholesterolaemia  
 XX  
 XX Claim 4; Page 53; 72pp; English.  
 XX  
 XX AAT50595-T50642 represent target sequences for the human cholesterol  
 CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).  
 CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer  
 CC between plasma lipoproteins. The numbering of the targets refers to the  
 CC position of the cleavage site in full length CETP. The ribozyme then  
 CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The  
 CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby  
 CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,  
 CC the reverse cholesterol transport (RCT) pathway can be inhibited (or  
 CC eliminated) thereby preventing the reduction in size density of the high  
 CC density lipoproteins (HDL), prolonging HDL half life, and therefore  
 CC increasing HDL levels. The ribozymes can be used to treat conditions  
 CC associated with abnormal levels of CETP, specifically atherosclerosis,  
 CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,  
 CC familial hypercholesterolaemia, hypopalipoproteinaemia, vascular  
 CC complications of diabetes, transplant, atherectomy and angioplastic  
 CC restenosis. By inhibiting CETP, the levels of HDL and low density  
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a  
 CC decrease in LDL levels, and a corresponding increase in HDL levels). The  
 CC ribozymes can also be used diagnostically to study genetic drift and  
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes  
 CC target specific regions of the CETP gene, they have low non-specific  
 CC activity.  
 XX  
 XX Sequence 18 BP; 4 A; 9 C; 1 G; 4 U; 0 other;  
 SQ

Query Match 1.0%; Score 18; DB 17; Length 18;  
 Best Local Similarity 77.8%; Pred. No. 91;  
 Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 847 catcacagcctctacct 864  
 DB 1 caucacagccuccuaccu 18  
 ||:|||||:|||||:  
 ||:|||||:|||||:

RESULT 36  
 AAT50623  
 ID AAT50623 standard; RNA; 18 BP.  
 XX  
 XX AAT50623;  
 XX  
 XX 10-MAR-1997 (first entry)  
 XX Human CETP hairpin ribozyme target sequence #942.  
 XX  
 XX Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;  
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;  
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;  
 KW familial hypercholesterolaemia; dyslipidaemia; hypopalipoproteinaemia;  
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;  
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;  
 KW LDL; ss.

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XX OS Homo sapiens.
XX PN WO9620279-A1.
XX PD 04-JUL-1996.
XX PF 11-DEC-1995; 95WO-US16000.
XX PR 23-DEC-1994; 94US-0363240.
XX PA (RIBO-) RIBOZYME PHARM INC.
XX PA (WARN ) WARNER LAMBERT CO.
XX PI Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
XX DR WPI; 1996-321852/32.
XX PT New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
XX PT - useful for preventing or treating initial development, progression
XX PT or regression of vascular diseases, esp. familial
XX PT hypercholesterolaemia
XX PS Claim 4; Page 53; 72pp; English.
XX CC AAT50595-r50642 represent target sequences for the human cholesterol
XX CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-r50594).
XX CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer
XX CC between plasma lipoproteins. The numbering of the targets refers to the
XX CC position of the cleavage site in full length CETP. The ribozyme then
XX CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The
XX CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby
XX CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,
XX CC eliminated) thereby preventing the reduction in size density of the high
XX CC density lipoproteins (HDL), prolonging HDL half life, and therefore
XX CC increasing HDL levels. The ribozymes can be used to treat conditions
XX CC associated with abnormal levels of CETP, specifically atherosclerosis,
XX CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,
XX CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular
XX CC complications of diabetes, transplant, atherectomy and angioplasty
XX CC restenosis. By inhibiting CETP, the levels of HDL and low density
XX CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a
XX CC decrease in LDL levels, and a corresponding increase in HDL levels). The
XX CC ribozymes can also be used diagnostically to study genetic drift and
XX CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes
XX CC target specific regions of the CETP gene, they have low non-specific
XX CC activity.
XX SQ Sequence 18 BP; 3 A; 6 C; 6 G; 3 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;
Best Local Similarity 83.3%; Pred. NO. 91;
Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 936 ccacactgctgggggact 953
DB 1 ccacacugcgggggacu 18
|||||:|||||:|

RESULT 37
AAT50624
ID AAT50624 standard; RNA; 18 BP.
XX AC
XX AAT50624;
XX DT 10-MAR-1997 (first entry)
DE Human CETP hairpin ribozyme target sequence #1025.
XX KW Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;
XX KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;

```

```

KW KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
KW KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;
KW KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
KW KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
XX OS Homo sapiens.
XX PN WO9620279-A1.
XX PD 04-JUL-1996.
XX PF 11-DEC-1995; 95WO-US16000.
XX PR 23-DEC-1994; 94US-0363240.
XX PA (RIBO-) RIBOZYME PHARM INC.
XX PA (WARN ) WARNER LAMBERT CO.
XX PI Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
XX DR WPI; 1996-321852/32.
XX PT New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
XX PT - useful for preventing or treating initial development, progression
XX PT or regression of vascular diseases, esp. familial
XX PT hypercholesterolaemia
XX PS Claim 4; Page 53; 72pp; English.
XX CC AAT50595-r50642 represent target sequences for the human cholesterol
XX CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-r50594).
XX CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer
XX CC between plasma lipoproteins. The numbering of the targets refers to the
XX CC position of the cleavage site in full length CETP. The ribozyme then
XX CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The
XX CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby
XX CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,
XX CC eliminated) thereby preventing the reduction in size density of the high
XX CC density lipoproteins (HDL), prolonging HDL half life, and therefore
XX CC increasing HDL levels. The ribozymes can be used to treat conditions
XX CC associated with abnormal levels of CETP, specifically atherosclerosis,
XX CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,
XX CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular
XX CC complications of diabetes, transplant, atherectomy and angioplasty
XX CC restenosis. By inhibiting CETP, the levels of HDL and low density
XX CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a
XX CC decrease in LDL levels, and a corresponding increase in HDL levels). The
XX CC ribozymes can also be used diagnostically to study genetic drift and
XX CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes
XX CC target specific regions of the CETP gene, they have low non-specific
XX CC activity.
XX SQ Sequence 18 BP; 2 A; 7 C; 5 G; 4 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;
Best Local Similarity 77.8%; Pred. NO. 91;
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1019 gatggccgcctcatgctc 1036
DB 1 gauggcgcgcacugcuc 18
|||||:|||||:|

RESULT 38
AAT50625
ID AAT50625 standard; RNA; 18 BP.
XX AC
XX AAT50625;
XX DT 10-MAR-1997 (first entry)

```





Db 1 egcaccugcuggggaau 18

RESULT 40  
AAT50626  
ID AAT50626 standard; RNA; 18 BP.  
XX  
AC AAT50626;  
XX  
DT 10-MAR-1997 (first entry)  
XX  
DE Human CETP hairpin ribozyme target sequence #1041.  
XX  
KW Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;  
KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;  
KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;  
KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;  
KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;  
KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;  
KW LDL; ss.  
XX  
OS Homo sapiens.  
XX  
PN W09620279-A1.  
XX  
PD 04-JUL-1996.  
XX  
PF 11-DEC-1995; 95WO-US16000.  
XX  
PR 23-DEC-1994; 94US-0363240.  
XX  
PA (RIBO-) RIBOZYME PHARM INC.  
PA (WARN ) WARNER LAMBERT CO.  
PI Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;  
XX WPI; 1996-321852/32.  
XX  
DR New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA  
XX - useful for preventing or treating initial development, progression  
XX or regression of vascular diseases, esp. familial  
XX hypercholesterolaemia  
XX  
PS Claim 4; Page 53; 72pp; English.  
XX  
CC AAT50595-T50642 represent target sequences for the human cholesterol  
CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).  
CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer  
CC between plasma lipoproteins. The numbering of the targets refers to the  
CC position of the cleavage site in full length CETP. The ribozyme then  
CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The  
CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby  
CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,  
CC the reverse cholesterol transport (RCT) pathway can be inhibited (or  
CC eliminated) thereby preventing the reduction in size density of the high  
CC density lipoproteins (HDL), prolonging HDL half life, and therefore  
CC increasing HDL levels. The ribozymes can be used to treat conditions  
CC associated with abnormal levels of CETP, specifically atherosclerosis,  
CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,  
CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular  
CC complications of diabetes, transplant, atherectomy and angioplastic  
CC restenosis. By inhibiting CETP, the levels of HDL and low density  
CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a  
CC decrease in LDL levels, and a corresponding increase in HDL levels). The  
CC ribozymes can also be used diagnostically to study genetic drift and  
CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes  
CC target specific regions of the CETP gene, they have low non-specific  
CC activity.  
XX  
SQ Sequence 18 BP; 4 A; 4 C; 7 G; 3 U; 0 other;

Best Local Similarity 83.3%; Pred. No. 91;  
Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1035 tcagcctgatggagacg 1052  
Db :|||||:|||||  
1 ucagccugauggagacg 18

RESULT 41  
AAT50627  
ID AAT50627 standard; RNA; 18 BP.  
XX  
AC AAT50627;  
XX  
DT 10-MAR-1997 (first entry)  
XX  
DE Human CETP hairpin ribozyme target sequence #1121.  
XX  
KW Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;  
KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;  
KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;  
KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;  
KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;  
KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;  
KW LDL; ss.  
XX  
OS Homo sapiens.  
XX  
PN W09620279-A1.  
XX  
PD 04-JUL-1996.  
XX  
PF 11-DEC-1995; 95WO-US16000.  
XX  
PR 23-DEC-1994; 94US-0363240.  
XX  
PA (RIBO-) RIBOZYME PHARM INC.  
PA (WARN ) WARNER LAMBERT CO.  
PI Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;  
XX WPI; 1996-321852/32.  
XX  
DR New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA  
XX - useful for preventing or treating initial development, progression  
XX or regression of vascular diseases, esp. familial  
XX hypercholesterolaemia  
XX  
PS Claim 4; Page 53; 72pp; English.  
XX  
CC AAT50595-T50642 represent target sequences for the human cholesterol  
CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).  
CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer  
CC between plasma lipoproteins. The numbering of the targets refers to the  
CC position of the cleavage site in full length CETP. The ribozyme then  
CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The  
CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby  
CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,  
CC the reverse cholesterol transport (RCT) pathway can be inhibited (or  
CC eliminated) thereby preventing the reduction in size density of the high  
CC density lipoproteins (HDL), prolonging HDL half life, and therefore  
CC increasing HDL levels. The ribozymes can be used to treat conditions  
CC associated with abnormal levels of CETP, specifically atherosclerosis,  
CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,  
CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular  
CC complications of diabetes, transplant, atherectomy and angioplastic  
CC restenosis. By inhibiting CETP, the levels of HDL and low density  
CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a  
CC decrease in LDL levels, and a corresponding increase in HDL levels). The  
CC ribozymes can also be used diagnostically to study genetic drift and  
CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes  
CC target specific regions of the CETP gene, they have low non-specific  
CC activity.  
XX

Query Match 1.08; Score 18; DB 17; Length 18;

CC decrease in LDL levels, and a corresponding increase in HDL levels). The  
 CC ribozymes can also be used diagnostically to study genetic drift and  
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes  
 CC target specific regions of the CETP gene, they have low non-specific  
 CC activity.  
 XX  
 SQ Sequence 18 BP; 1 A; 8 C; 6 G; 3 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;  
 Best Local Similarity 83.3%; Pred. No. 91;  
 Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1115 gtcggcggtccaccgc 1132  
 I:|||||:|||||  
 Db 1 gucggcggtccaccgc 18

RESULT 42  
 AAT50628  
 ID AAT50628 standard; RNA; 18 BP.  
 XX  
 AC AAT50628;  
 XX  
 DT 10-MAR-1997 (first entry)  
 XX  
 DE Human CETP hairpin ribozyme target sequence #1147.  
 XX  
 KW Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;  
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;  
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;  
 KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;  
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;  
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;  
 KW LDL; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 FN WO9620279-A1.  
 XX  
 PD 04-JUL-1996.  
 XX  
 PF 11-DEC-1995; 95WO-US16000.  
 XX  
 PR 23-DEC-1994; 94US-0363240.  
 XX  
 PA (RIBO-) RIBOZYME PHARM INC.  
 PA (WARN) WARNER LAMBERT CO.  
 XX  
 PI Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;  
 XX  
 DR WPI; 1996-321852/32.  
 XX  
 PS Claim 4; Page 53; 72pp; English.  
 XX  
 CC AAT50595-T50642 represent target sequences for the human cholesterol  
 CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).  
 CC CETP is a 74 kd glycoprotein that facilitates neutral lipid transfer  
 CC between plasma lipoproteins. The numbering of the targets refers to the  
 CC position of the cleavage site in full length CETP. The ribozyme then  
 CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The  
 CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby  
 CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,  
 CC the reverse cholesterol transport (RCT) pathway can be inhibited (or  
 CC eliminated) thereby preventing the reduction in size density of the high  
 CC density lipoproteins (HDL), prolonging HDL half life, and therefore  
 CC associated with abnormal levels of CETP, specifically atherosclerosis,  
 CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,  
 CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular  
 CC complications of diabetes, transplant, atherectomy and angioplastic  
 CC restenosis. By inhibiting CETP, the levels of HDL and low density  
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a

CC decrease in LDL levels, and a corresponding increase in HDL levels). The  
 CC ribozymes can also be used diagnostically to study genetic drift and  
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes  
 CC target specific regions of the CETP gene, they have low non-specific  
 CC activity.  
 XX  
 SQ Sequence 18 BP; 3 A; 8 C; 3 G; 4 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;  
 Best Local Similarity 77.8%; Pred. No. 91;  
 Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1141 agtcacggctccactgcct 1158  
 I:|||||:|||||  
 Db 1 agucacggctccacugccu 18

RESULT 43  
 AAT50629  
 ID AAT50629 standard; RNA; 18 BP.  
 XX  
 AC AAT50629;  
 XX  
 DT 10-MAR-1997 (first entry)  
 XX  
 DE Human CETP hairpin ribozyme target sequence #1154.  
 XX  
 KW Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;  
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;  
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;  
 KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;  
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;  
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;  
 KW LDL; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 FN WO9620279-A1.  
 XX  
 PD 04-JUL-1996.  
 XX  
 PF 11-DEC-1995; 95WO-US16000.  
 XX  
 PR 23-DEC-1994; 94US-0363240.  
 XX  
 PA (RIBO-) RIBOZYME PHARM INC.  
 PA (WARN) WARNER LAMBERT CO.  
 XX  
 PI Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;  
 XX  
 DR WPI; 1996-321852/32.  
 XX  
 PS Claim 4; Page 53; 72pp; English.  
 XX  
 CC AAT50595-T50642 represent target sequences for the human cholesterol  
 CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).  
 CC CETP is a 74 kd glycoprotein that facilitates neutral lipid transfer  
 CC between plasma lipoproteins. The numbering of the targets refers to the  
 CC position of the cleavage site in full length CETP. The ribozyme then  
 CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The  
 CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby  
 CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,  
 CC the reverse cholesterol transport (RCT) pathway can be inhibited (or  
 CC eliminated) thereby preventing the reduction in size density of the high  
 CC density lipoproteins (HDL), prolonging HDL half life, and therefore  
 CC associated with abnormal levels of CETP, specifically atherosclerosis,  
 CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,  
 CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular  
 CC complications of diabetes, transplant, atherectomy and angioplastic  
 CC restenosis. By inhibiting CETP, the levels of HDL and low density  
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a

CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,  
 CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular  
 CC complications of diabetes, transplant, atherectomy and angioplasty  
 CC restenosis. By inhibiting CETP, the levels of HDL and low density  
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a  
 CC decrease in LDL levels, and a corresponding increase in HDL levels). The  
 CC ribozymes can also be used diagnostically to study genetic drift and  
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes  
 CC target specific regions of the CETP gene, they have low non-specific  
 CC activity.  
 XX  
 SQ Sequence 18 BP; 4 A; 6 C; 4 G; 4 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;  
 Best Local Similarity 77.8%; Pred. No. 91;  
 Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
 QY 1148 gtccactgcctcaagatg 1165  
 Db 1 guccacugccuagaug 18  
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RESULT 44  
 AAT50630  
 ID AAT50630 standard; RNA; 18 BP.  
 AC AAT50630;  
 XX  
 DT 10-MAR-1997 (first entry)  
 XX  
 DE Human CETP hairpin ribozyme target sequence #1240.  
 XX

Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;  
 neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;  
 reverse cholesterol transport; high density lipoprotein; therapy; CETP;  
 familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;  
 peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;  
 angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;  
 LDL; ss.

XX Homo sapiens.  
 OS  
 PN WO9620279-A1.  
 XX  
 PD 04-JUL-1996.  
 XX  
 PF 11-DEC-1995; 95WO-US16000.  
 XX  
 PR 23-DEC-1994; 94US-0363240.  
 XX  
 PA (RIBO-) RIBOZYME PHARM INC.  
 PA (WARN ) WARNER LAMBERT CO.  
 XX  
 PI Bisgaler C, Couture L, McSwiggen J, Pape M, Stinchcomb D;  
 XX  
 DR WPI; 1996-321852/32.  
 XX

New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA  
 - useful for preventing or treating initial development, progression  
 or regression of vascular diseases, esp. familial  
 hypercholesterolaemia  
 XX  
 PS Claim 4; Page 53; 72pp; English.

AAT50595-T50642 represent target sequences for the human cholesterol  
 ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).  
 CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer  
 between plasma lipoproteins. The numbering of the targets refers to the  
 position of the cleavage site in full length CETP. The ribozyme then  
 binds to 4-6 nucleotides 5', and a variable number 3' of this site. The  
 ribozymes are able to cleave mRNA from the gene encoding CETP, thereby  
 blocking synthesis and/or expression of the mRNA. By inhibiting CETP,

CC the reverse cholesterol transport (RCT) pathway can be inhibited (or  
 CC eliminated) thereby preventing the reduction in size density of the high  
 CC density lipoproteins (HDL), prolonging HDL half life, and therefore  
 CC increasing HDL levels. The ribozymes can be used to treat conditions  
 CC associated with abnormal levels of CETP, specifically atherosclerosis,  
 CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,  
 CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular  
 CC complications of diabetes, transplant, atherectomy and angioplasty  
 CC restenosis. By inhibiting CETP, the levels of HDL and low density  
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a  
 CC decrease in LDL levels, and a corresponding increase in HDL levels). The  
 CC ribozymes can also be used diagnostically to study genetic drift and  
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes  
 CC target specific regions of the CETP gene, they have low non-specific  
 CC activity.  
 XX  
 SQ Sequence 18 BP; 7 A; 8 C; 3 G; 0 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 91;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1234 acgccagaccagcaaca 1251  
 Db 1 acgccagaccagcaaca 18  
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RESULT 45  
 AAT50631  
 ID AAT50631 standard; RNA; 18 BP.  
 AC AAT50631;  
 XX  
 DT 10-MAR-1997 (first entry)  
 XX  
 DE Human CETP hairpin ribozyme target sequence #1291.  
 XX

Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;  
 neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;  
 reverse cholesterol transport; high density lipoprotein; therapy; CETP;  
 familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;  
 peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;  
 angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;  
 LDL; ss.

XX Homo sapiens.  
 OS  
 PN WO9620279-A1.  
 XX  
 PD 04-JUL-1996.  
 XX  
 PF 11-DEC-1995; 95WO-US16000.  
 XX  
 PR 23-DEC-1994; 94US-0363240.  
 XX  
 PA (RIBO-) RIBOZYME PHARM INC.  
 PA (WARN ) WARNER LAMBERT CO.  
 XX  
 PI Bisgaler C, Couture L, McSwiggen J, Pape M, Stinchcomb D;  
 XX  
 DR WPI; 1996-321852/32.  
 XX

New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA  
 - useful for preventing or treating initial development, progression  
 or regression of vascular diseases, esp. familial  
 hypercholesterolaemia  
 XX  
 PS Claim 4; Page 53; 72pp; English.

AAT50595-T50642 represent target sequences for the human cholesterol  
 ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).  
 CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer

between plasma lipoproteins. The numbering of the targets refers to the position of the cleavage site in full length CETP. The ribozyme then binds to 4-6 nucleotides 5', and a variable number 3' of this site. The ribozymes are able to cleave mRNA from the gene encoding CETP, thereby blocking synthesis and/or expression of the mRNA. By inhibiting CETP, the reverse cholesterol transport (RCT) pathway can be inhibited (or eliminated) thereby preventing the reduction in size density of the high density lipoproteins (HDL), prolonging HDL half life, and therefore increasing HDL levels. The ribozymes can be used to treat conditions associated with abnormal levels of CETP, specifically atherosclerosis, peripheral vascular disease, hyperbetalipoproteinemia, dyslipidaemia, familial hypercholesterolaemia, hypobetalipoproteinemia, vascular complications of diabetes, transplant, atherectomy and angioplasty restenosis. By inhibiting CETP, the levels of HDL and low density lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a decrease in LDL levels, and a corresponding increase in HDL levels). The ribozymes can also be used diagnostically to study genetic drift and mutations in diseased cells, and to detect CETP mRNA. As the ribozymes target specific regions of the CETP gene, they have low non-specific activity.

Sequence 18 BP; 3 A; 8 C; 4 G; 3 U; 0 other;

Query Match  
Best Local Similarity 1.0%; Score 18; DB 17; Length 18;  
Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;  
Qy 1285 gactaccgtccaggccctc 1302  
Db 1 gacuaaccgucaggccuc 18  
|||||:|||||

Search completed: April 20, 2002, 01:13:33  
Job time: 4465 sec

GenCore version 4.5  
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OM nucleic - nucleic search, using sw model

Run on: April 19, 2002, 22:03:21 ; Search time 92.54 Seconds  
(without alignments)  
4373.419 Million cell updates/sec

Title: US-09-925-139-3  
Perfect score: 1787  
Sequence: 1 gtgaatctctggggccagga.....ggcattaaagtgtgtatcc 1787

Scoring table: OLIGO\_NUC

Gapop 60.0 , Gapext 60.0

Searched: 351203 seqs, 113238999 residues

Word size : 0

Total number of hits satisfying chosen parameters: 495388

Minimum DB seq length: 0  
Maximum DB seq length: 50

Post-processing: Listing first 45 summaries

Database : Issued\_Patents\_NA.\*  
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2: /cgn2\_6/ptodata/2/ina/5B\_COMB.seq.\*  
3: /cgn2\_6/ptodata/2/ina/6A\_COMB.seq.\*  
4: /cgn2\_6/ptodata/2/ina/6B\_COMB.seq.\*  
5: /cgn2\_6/ptodata/2/ina/PCIRUS\_COMB.seq.\*  
6: /cgn2\_6/ptodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	46	2.6	46	1	US-08-171-389-89
2	46	2.6	46	1	US-08-123-936-89
3	46	2.6	46	2	US-08-475-228A-89
4	46	2.6	46	3	US-08-482-080A-89
5	46	2.6	46	5	PCT-US93-12388-89
6	18	1.0	18	1	US-08-363-240A-1078
7	18	1.0	18	1	US-08-363-240A-1079
8	18	1.0	18	1	US-08-363-240A-1080
9	18	1.0	18	1	US-08-363-240A-1081
10	18	1.0	18	1	US-08-363-240A-1082
11	18	1.0	18	1	US-08-363-240A-1083
12	18	1.0	18	1	US-08-363-240A-1084
13	18	1.0	18	1	US-08-363-240A-1085
14	18	1.0	18	1	US-08-363-240A-1086
15	18	1.0	18	1	US-08-363-240A-1087
16	18	1.0	18	1	US-08-363-240A-1088
17	18	1.0	18	1	US-08-363-240A-1089
18	18	1.0	18	1	US-08-363-240A-1090
19	18	1.0	18	1	US-08-363-240A-1091
20	18	1.0	18	1	US-08-363-240A-1092
21	18	1.0	18	1	US-08-363-240A-1093
22	18	1.0	18	1	US-08-363-240A-1094
23	18	1.0	18	1	US-08-363-240A-1095
24	18	1.0	18	1	US-08-363-240A-1096
25	18	1.0	18	1	US-08-363-240A-1097
26	18	1.0	18	1	US-08-363-240A-1098
27	18	1.0	18	1	US-08-363-240A-1099

28	18	1.0	18	1	US-08-363-240A-1100	Sequence 1100, Ap
29	18	1.0	18	1	US-08-363-240A-1101	Sequence 1101, Ap
30	18	1.0	18	1	US-08-363-240A-1102	Sequence 1102, Ap
31	18	1.0	18	1	US-08-363-240A-1103	Sequence 1103, Ap
32	18	1.0	18	1	US-08-363-240A-1104	Sequence 1104, Ap
33	18	1.0	18	1	US-08-363-240A-1105	Sequence 1105, Ap
34	18	1.0	18	1	US-08-363-240A-1106	Sequence 1106, Ap
35	18	1.0	18	1	US-08-363-240A-1107	Sequence 1107, Ap
36	18	1.0	18	1	US-08-363-240A-1108	Sequence 1108, Ap
37	18	1.0	18	1	US-08-363-240A-1109	Sequence 1109, Ap
38	18	1.0	18	1	US-08-363-240A-1110	Sequence 1110, Ap
39	18	1.0	18	1	US-08-363-240A-1111	Sequence 1111, Ap
40	18	1.0	18	1	US-08-363-240A-1112	Sequence 1112, Ap
41	18	1.0	18	1	US-08-363-240A-1113	Sequence 1113, Ap
42	18	1.0	18	1	US-08-363-240A-1114	Sequence 1114, Ap
43	18	1.0	18	1	US-08-363-240A-1115	Sequence 1115, Ap
44	18	1.0	18	1	US-08-363-240A-1116	Sequence 1116, Ap
45	18	1.0	18	1	US-08-363-240A-1117	Sequence 1117, Ap

#### ALIGNMENTS

RESULT 1  
US-08-171-389-89  
; Sequence 89, Application US/08171389  
; Patent No. 5578444  
; GENERAL INFORMATION:  
; APPLICANT: Edwards, Cynthia A.  
; APPLICANT: Cantor, Charles R.  
; APPLICANT: Andrews, Beth M.  
; APPLICANT: Turin, Lisa M.  
; APPLICANT: Fry, Kirk E.  
; TITLE OF INVENTION: Sequence-Directed DNA Binding  
; NUMBER OF INVENTION: 641  
; NUMBER OF SEQUENCES: 641  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Genelabs Technologies, Inc.  
; STREET: 505 Penobscot Drive  
; CITY: Redwood City  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94063  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/171,389  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/123,936  
; FILING DATE: 17-SEP-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/996,783  
; FILING DATE: 23-DEC-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/723,618  
; FILING DATE: 27-JUN-1991  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/081,070  
; FILING DATE: 22-JUN-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fabian, Gary R.  
; REGISTRATION NUMBER: 33,875  
; REFERENCE/DOCKET NUMBER: 4600-0175/G19P3  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 324-0880  
; TELEFAX: (415) 324-0960  
; INFORMATION FOR SEQ ID NO: 89:  
; SEQUENCE CHARACTERISTICS:

LENGTH: 46 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
HYPOTHETICAL: NO  
ORIGINAL SOURCE:  
INDIVIDUAL ISOLATE: Human cholesteryl ester transferase  
INDIVIDUAL ISOLATE: protein (CETP) gene  
US-08-171-389-89

Query Match 2.6%; Score 46; DB 1; Length 46;  
Best Local Similarity 100.0%; Pred. No. 6.6e-13;  
Matches 46; Conservative 0; Mismatches 0; Indels 0;

QY 53 gtgggggctggcgacatacatatcacgggtccaggtgaacggc 98  
DB 1 GTGGGGCTGGCGGACATACATATACGGGCTCCAGGCTGAACGGC 46

## RESULT 2

US-08-123-936-89  
Sequence 89, Application US/08123936  
Patent No. 5726014

## GENERAL INFORMATION:

APPLICANT: Edwards, Cynthia A.  
APPLICANT: Cantor, Charles R.  
APPLICANT: Andrews, Beth M.  
APPLICANT: Turin, Lisa M.

TITLE OF INVENTION: Screening Assay for the Detection of  
TITLE OF INVENTION: DNA-Binding Molecules  
NUMBER OF SEQUENCES: 640

## CORRESPONDENCE ADDRESS:

ADDRESSEE: Genelabs Technologies, Inc.  
STREET: 505 Penobscot Drive  
CITY: Redwood City  
STATE: CA  
COUNTRY: USA  
ZIP: 94063

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/123,936  
FILING DATE:

## CLASSIFICATION:

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/996,783  
FILING DATE: 23-DEC-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/723,618  
FILING DATE: 27-JUN-1991

## ATTORNEY/AGENT INFORMATION:

NAME: Fabian, Gary R.  
REGISTRATION NUMBER: 33,875  
REFERENCE/DOCKET NUMBER: 4600-0075.32/G19P2  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 324-0880  
TELEFAX: (415) 324-0960  
INFORMATION FOR SEQ ID NO: 89:

## SEQUENCE CHARACTERISTICS:

LENGTH: 46 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
HYPOTHETICAL: NO  
ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: Human cholesteryl ester transferase  
INDIVIDUAL ISOLATE: protein (CETP) gene

US-08-123-936-89

Query Match 2.6%; Score 46; DB 1; Length 46;  
Best Local Similarity 100.0%; Pred. No. 6.6e-13;  
Matches 46; Conservative 0; Mismatches 0; Indels 0;

QY 53 gtgggggctggcgacatacatatcacgggtccaggtgaacggc 98  
DB 1 GTGGGGCTGGCGGACATACATATACGGGCTCCAGGCTGAACGGC 46

## RESULT 3

US-08-475-228A-89  
Sequence 89, Application US/08475228A  
Patent No. 5869241

## GENERAL INFORMATION:

APPLICANT: Edwards, Cynthia A.  
APPLICANT: Cantor, Charles R.  
APPLICANT: Andrews, Beth M.  
APPLICANT: Turin, Lisa M.  
APPLICANT: Fry, Kirk E.

TITLE OF INVENTION: Sequence-Directed DNA Binding  
TITLE OF INVENTION: Molecules, Compositions and Methods  
NUMBER OF SEQUENCES: 664

## CORRESPONDENCE ADDRESS:

ADDRESSEE: Genelabs Technologies, Inc.  
STREET: 505 Penobscot Drive  
CITY: Redwood City  
STATE: CA  
COUNTRY: USA  
ZIP: 94063

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/475,228A  
FILING DATE: 06-JUN-1995

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/123,936  
FILING DATE: 17-SEP-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/996,783  
FILING DATE: 23-DEC-1992

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/723,618  
FILING DATE: 27-JUN-1991  
APPLICATION NUMBER: US 08/081,070  
FILING DATE: 22-JUN-1993

## ATTORNEY/AGENT INFORMATION:

NAME: Stratford, Carol A.  
REGISTRATION NUMBER: 34,444  
REFERENCE/DOCKET NUMBER: 4600-0175.21/G19P3D2  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 324-0880  
TELEFAX: (415) 324-0960  
INFORMATION FOR SEQ ID NO: 89:

## SEQUENCE CHARACTERISTICS:

LENGTH: 46 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
HYPOTHETICAL: NO  
ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: Human cholesteryl ester transferase  
INDIVIDUAL ISOLATE: protein (CETP) gene  
US-08-475-228A-89

Query Match 2.6%; Score 46; DB 2; Length 46;  
Best Local Similarity 100.0%; Pred. No. 6.6e-13;  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 53 gtgggggctggcgacacatacatatcggtccaggctgaacgacgc 98  
|||||  
Db 1 GTGGGGGCTGGCGGACACATACATATACGGGCTCCAGGCTGAACGCGC 46

RESULT 4  
US-08-482-080A-89  
; Sequence 89, Application US/08482080A  
; Patent No. 6010849  
; GENERAL INFORMATION:  
; APPLICANT: Edwards, Cynthia A.  
; APPLICANT: Cantor, Charles R.  
; APPLICANT: Andrews, Beth M.  
; APPLICANT: Turin, Lisa M.  
; APPLICANT: Fry, Kirk E.  
; TITLE OF INVENTION: Sequence-Directed DNA Binding  
; TITLE OF INVENTION: Molecules, Compositions and Methods  
; NUMBER OF SEQUENCES: 664  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Genelabs Technologies, Inc.  
; STREET: 505 Penobscot Drive  
; CITY: Redwood City  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94063  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/482,080A  
; FILING DATE: 07-JUN-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/171,389  
; FILING DATE: 20-DEC-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/123,936  
; FILING DATE: 17-SEP-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/996,783  
; FILING DATE: 23-DEC-1992  
; APPLICATION DATA:  
; FILING DATE: 27-JUN-1991  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/081,070  
; FILING DATE: 22-JUN-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Brady, John F.  
; REGISTRATION NUMBER: 39,118  
; REFERENCE/DOCKET NUMBER: 4600-0175.20/G19P3D1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (650) 324-0880  
; TELEFAX: (650) 324-0960  
; INFORMATION FOR SEQ ID NO: 89:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 46 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
; HYPOTHETICAL: NO  
; ORIGINAL SOURCE:  
; INDIVIDUAL ISOLATE: Human cholesterol ester transferase  
; INDIVIDUAL ISOLATE: protein (CETP) gene

US-08-482-080A-89

Query Match 2.6%; Score 46; DB 3; Length 46;  
Best Local Similarity 100.0%; Pred. No. 6.6e-13;  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 53 gtgggggctggcgacacatacatatcggtccaggctgaacgacgc 98  
|||||  
Db 1 GTGGGGGCTGGCGGACACATACATATACGGGCTCCAGGCTGAACGCGC 46

RESULT 5  
PCT-US93-12388-89  
; Sequence 89, Application PC/TUS9312388  
; GENERAL INFORMATION:  
; APPLICANT:  
; TITLE OF INVENTION: Sequence-Directed DNA Binding  
; TITLE OF INVENTION: Molecules, Compositions and Methods  
; NUMBER OF SEQUENCES: 641  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Genelabs Technologies, Inc.  
; STREET: 505 Penobscot Drive  
; CITY: Redwood City  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94063  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US93/12388  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/123,936  
; FILING DATE: 17-SEP-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/996,783  
; FILING DATE: 23-DEC-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fabian, Gary R.  
; REGISTRATION NUMBER: 33,875  
; REFERENCE/DOCKET NUMBER: 4600-0175.41/G19PCT2  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 324-0880  
; TELEFAX: (415) 324-0960  
; INFORMATION FOR SEQ ID NO: 89:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 46 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
; HYPOTHETICAL: NO  
; ORIGINAL SOURCE:  
; INDIVIDUAL ISOLATE: Human cholesterol ester transferase  
; INDIVIDUAL ISOLATE: protein (CETP) gene  
; PCT-US93-12388-89

Query Match 2.6%; Score 46; DB 5; Length 46;  
Best Local Similarity 100.0%; Pred. No. 6.6e-13;  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 53 gtgggggctggcgacacatacatatcggtccaggctgaacgacgc 98  
|||||  
Db 1 GTGGGGGCTGGCGGACACATACATATACGGGCTCCAGGCTGAACGCGC 46

RESULT 6  
US-08-363-240A-1078  
; Sequence 1078, Application US/08363240A  
; Patent No. 5705388



GENERAL INFORMATION:  
APPLICANT: Couture, Larry  
APPLICANT: McSwiggen, James  
APPLICANT: Bisgaier, Charles  
APPLICANT: Pape, Michael  
TITLE OF INVENTION: METHOD AND REAGENT FOR  
PREVENTION, INHIBITION OF  
PROGRESSION AND REGRESSION  
OF VASCULAR DISEASES  
NUMBER OF SEQUENCES: 1243  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
CITY: Suite 4700  
STATE: Los Angeles  
COUNTRY: California  
ZIP: U.S.A.  
90071

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/363,240A  
FILING DATE: December 23, 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:

FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 210/096  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
INFORMATION FOR SEQ ID NO: 1078:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-363-240A-1078

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 26;  
Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;  
QY 21 agaccctgtgcccgaa 38  
DB 1 AGACCGUGCGCCGAA 18  
|||||:|||||  
TITLE OF INVENTION: METHOD AND REAGENT FOR  
PREVENTION, INHIBITION OF  
PROGRESSION AND REGRESSION  
OF VASCULAR DISEASES  
NUMBER OF SEQUENCES: 1243  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
CITY: Suite 4700  
STATE: Los Angeles  
COUNTRY: California  
ZIP: U.S.A.  
90071

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/363,240A  
FILING DATE: December 23, 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:

FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 210/096  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
INFORMATION FOR SEQ ID NO: 1078:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-363-240A-1078

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 26;  
Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;  
QY 21 agaccctgtgcccgaa 38  
DB 1 AGACCGUGCGCCGAA 18  
|||||:|||||  
TITLE OF INVENTION: METHOD AND REAGENT FOR  
PREVENTION, INHIBITION OF  
PROGRESSION AND REGRESSION  
OF VASCULAR DISEASES  
NUMBER OF SEQUENCES: 1243  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
CITY: Suite 4700  
STATE: Los Angeles  
COUNTRY: California  
ZIP: U.S.A.  
90071

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/363,240A

GENERAL INFORMATION:  
APPLICANT: Couture, Larry  
APPLICANT: McSwiggen, James  
APPLICANT: Bisgaier, Charles  
APPLICANT: Pape, Michael  
TITLE OF INVENTION: METHOD AND REAGENT FOR  
PREVENTION, INHIBITION OF  
PROGRESSION AND REGRESSION  
OF VASCULAR DISEASES  
NUMBER OF SEQUENCES: 1243  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
CITY: Suite 4700  
STATE: Los Angeles  
COUNTRY: California  
ZIP: U.S.A.  
90071

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/363,240A  
FILING DATE: December 23, 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:

FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 210/096  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
INFORMATION FOR SEQ ID NO: 1079:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-363-240A-1079

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 26;  
Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;  
QY 24 cctgtgtcccggaagag 41  
DB 1 CCCUGUGCGCCGGAAGAG 18  
|||||:|||||  
TITLE OF INVENTION: METHOD AND REAGENT FOR  
PREVENTION, INHIBITION OF  
PROGRESSION AND REGRESSION  
OF VASCULAR DISEASES  
NUMBER OF SEQUENCES: 1243  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
CITY: Suite 4700  
STATE: Los Angeles  
COUNTRY: California  
ZIP: U.S.A.  
90071

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/363,240A

FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 210/096  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
INFORMATION FOR SEQ ID NO: 1078:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-363-240A-1078

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 26;  
Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;  
QY 24 cctgtgtcccggaagag 41  
DB 1 CCCUGUGCGCCGGAAGAG 18  
|||||:|||||  
TITLE OF INVENTION: METHOD AND REAGENT FOR  
PREVENTION, INHIBITION OF  
PROGRESSION AND REGRESSION  
OF VASCULAR DISEASES  
NUMBER OF SEQUENCES: 1243  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
CITY: Suite 4700  
STATE: Los Angeles  
COUNTRY: California  
ZIP: U.S.A.  
90071

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/363,240A

;; FILING DATE: December 23, 1994  
;; PRIOR APPLICATION DATA:  
;; FILING DATE:  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Warburg, Richard  
;; REGISTRATION NUMBER: 32,327  
;; REFERENCE/DOCKET NUMBER: 210/096  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (213) 489-1600  
;; TELEFAX: (213) 955-0440  
;; TELEX: 67-3510  
;; INFORMATION FOR SEQ ID NO: 1080:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 18 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
US-08-363-240A-1080

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 26;  
Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 90 ctgaacggctcgggccac 107  
|:|||||:|||||  
Db 1 CUGAACGGCUGGGCCAC 18

RESULT 9  
US-08-363-240A-1081  
; Sequence 1081, Application US/08363240A  
; Patent No. 5705388  
; GENERAL INFORMATION:  
; APPLICANT: Couture, Larry  
; APPLICANT: McSwiggen, James  
; APPLICANT: Bisgaier, Charles  
; APPLICANT: Pape, Michael  
; TITLE OF INVENTION: METHOD AND REAGENT FOR  
; TITLE OF INVENTION: PREVENTION, INHIBITION OF  
; TITLE OF INVENTION: PROGRESSION AND REGRESSION  
; NUMBER OF SEQUENCES: 1243  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/363,240A  
FILING DATE: December 23, 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 210/096  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 1081:

;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 18 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
US-08-363-240A-1081

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 83.3%; Pred. No. 26;  
Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 113 caccactgcctgataacc 130  
|||||:|||||  
Db 1 CACCACUGCCUGAUACC 18

RESULT 10  
US-08-363-240A-1082  
; Sequence 1082, Application US/08363240A  
; Patent No. 5705388  
; GENERAL INFORMATION:  
; APPLICANT: Couture, Larry  
; APPLICANT: McSwiggen, James  
; APPLICANT: Bisgaier, Charles  
; APPLICANT: Pape, Michael  
; TITLE OF INVENTION: METHOD AND REAGENT FOR  
; TITLE OF INVENTION: PREVENTION, INHIBITION OF  
; TITLE OF INVENTION: PROGRESSION AND REGRESSION  
; NUMBER OF SEQUENCES: 1243  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/363,240A  
FILING DATE: December 23, 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:

ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 210/096  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 1082:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-363-240A-1082

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 77.8%; Pred. No. 26;  
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 139 tgccacagtctgaccct 156



COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 MB  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/363,240A  
FILING DATE: December 23, 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 210/096  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 1086:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-363-240A-1085

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 83.3%; Pred. No. 26;  
Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;  
QY 176 catgctgtctcctcaagc 193  
DB 1 CAUGCCUGCCUCCRAAGC 18

RESULT 14  
US-08-363-240A-1086  
Sequence 1086, Application US/08363240A  
Patent No. 5705388  
GENERAL INFORMATION:  
APPLICANT: Couture, Larry  
APPLICANT: McSwiggen, James  
APPLICANT: Bisgaler, Charles  
APPLICANT: Pape, Michael  
TITLE OF INVENTION: METHOD AND REAGENT FOR  
TITLE OF INVENTION: PREVENTION, INHIBITION OF  
TITLE OF INVENTION: PROGRESSION AND REGRESSION  
TITLE OF INVENTION: OF VASCULAR DISEASES  
NUMBER OF SEQUENCES: 1243  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
CITY: Suite 4700  
STATE: Los Angeles  
COUNTRY: California  
ZIP: 90071  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/363,240A  
FILING DATE: December 23, 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:

NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 210/096  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 1086:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-363-240A-1086

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 77.8%; Pred. No. 26;  
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
QY 229 caagcctgcctcctcgtt 246  
DB 1 CAAGCCUGCCUCCUGGU 18

RESULT 15  
US-08-363-240A-1087  
Sequence 1087, Application US/08363240A  
Patent No. 5705388  
GENERAL INFORMATION:  
APPLICANT: Couture, Larry  
APPLICANT: McSwiggen, James  
APPLICANT: Bisgaler, Charles  
APPLICANT: Pape, Michael  
TITLE OF INVENTION: METHOD AND REAGENT FOR  
TITLE OF INVENTION: PREVENTION, INHIBITION OF  
TITLE OF INVENTION: PROGRESSION AND REGRESSION  
TITLE OF INVENTION: OF VASCULAR DISEASES  
NUMBER OF SEQUENCES: 1243  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
CITY: Suite 4700  
STATE: Los Angeles  
COUNTRY: California  
ZIP: 90071  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 MB  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/363,240A  
FILING DATE: December 23, 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 210/096  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 1087:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear

US-08-363-240A-1087

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 77.8%; Pred. No. 26;  
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 270 tgatccagaccgcttcc 287  
:|||||:|||||:|||||:  
Db 1 UGAUCCAGACGCCUCC 18

RESULT 16

US-08-363-240A-1088  
Sequence 1088, Application US/08363240A  
Patent No. 5705388

GENERAL INFORMATION:  
APPLICANT: Couture, Larry  
APPLICANT: McSwiggen, James  
APPLICANT: Bisgaier, Charles  
APPLICANT: Pape, Michael  
TITLE OF INVENTION: METHOD AND REAGENT FOR  
TITLE OF INVENTION: PREVENTION, INHIBITION OF  
TITLE OF INVENTION: PROGRESSION AND REGRESSION  
TITLE OF INVENTION: OF VASCULAR DISEASES  
NUMBER OF SEQUENCES: 1243  
CORRESPONDENCE ADDRESS:

ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/363,240A  
FILING DATE: December 23, 1994  
PRIOR APPLICATION DATA:

APPLICATION NUMBER:  
FILING DATE:

ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 210/096  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510

INFORMATION FOR SEQ ID NO: 1088:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear

US-08-363-240A-1088

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 26;  
Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 274 ccagaccgcttccagcg 291  
|||||:|||||:|||||:  
Db 1 CCAGACCGCCUCCAGCG 18

RESULT 17

US-08-363-240A-1089  
Sequence 1089, Application US/08363240A  
Patent No. 5705388

GENERAL INFORMATION:  
APPLICANT: Couture, Larry  
APPLICANT: McSwiggen, James  
APPLICANT: Bisgaier, Charles  
APPLICANT: Pape, Michael  
TITLE OF INVENTION: METHOD AND REAGENT FOR  
TITLE OF INVENTION: PREVENTION, INHIBITION OF  
TITLE OF INVENTION: PROGRESSION AND REGRESSION  
TITLE OF INVENTION: OF VASCULAR DISEASES  
NUMBER OF SEQUENCES: 1243  
CORRESPONDENCE ADDRESS:

ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/363,240A  
FILING DATE: December 23, 1994  
PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 210/096  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510

INFORMATION FOR SEQ ID NO: 1089:

SEQUENCE CHARACTERISTICS:

LENGTH: 18 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

US-08-363-240A-1089

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 83.3%; Pred. No. 26;  
Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 363 acatccagatcagccact 380  
|||:|||||:|||||:  
Db 1 ACAUCCAGACGCCACU 18

RESULT 18

US-08-363-240A-1090  
Sequence 1090, Application US/08363240A  
Patent No. 5705388

GENERAL INFORMATION:  
APPLICANT: Couture, Larry  
APPLICANT: McSwiggen, James  
APPLICANT: Bisgaier, Charles  
APPLICANT: Pape, Michael  
TITLE OF INVENTION: METHOD AND REAGENT FOR  
TITLE OF INVENTION: PREVENTION, INHIBITION OF  
TITLE OF INVENTION: PROGRESSION AND REGRESSION  
TITLE OF INVENTION: OF VASCULAR DISEASES  
NUMBER OF SEQUENCES: 1243

;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Lyon & Lyon  
;; STREET: 633 West Fifth Street  
;; CITY: Los Angeles  
;; STATE: California  
;; COUNTRY: U.S.A.  
;; ZIP: 90071  
;;  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
;; MEDIUM TYPE: storage  
;; OPERATING SYSTEM: IBM P.C. DOS 5.0  
;; SOFTWARE: Word Perfect 5.1  
;;  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/363,240A  
;; FILING DATE: December 23, 1994  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER:  
;; FILING DATE:  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Warburg, Richard  
;; REGISTRATION NUMBER: 32,327  
;; REFERENCE/DOCKET NUMBER: 210/096  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (213) 489-1600  
;; TELEFAX: (213) 955-0440  
;; TELEX: 67-3510  
;;  
;; INFORMATION FOR SEQ ID NO: 1090:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 18 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;;  
US-08-363-240A-1090

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 77.8%; Pred. No. 26;  
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 484 caccactgcctggtgct 501  
Db 1 CACCACGCGGUGGCU 18

RESULT 19  
US-08-363-240A-1091  
; Sequence 1091, Application US/08363240A  
; Patent No. 5705388  
; GENERAL INFORMATION:  
; APPLICANT: Couture, Larry  
; APPLICANT: McSwiggen, James  
; APPLICANT: Bisgaier, Charles  
; APPLICANT: Pape, Michael  
; TITLE OF INVENTION: METHOD AND REAGENT FOR  
; TITLE OF INVENTION: PREVENTION, INHIBITION OF  
; TITLE OF INVENTION: PROGRESSION AND REGRESSION  
; TITLE OF INVENTION: OF VASCULAR DISEASES  
; NUMBER OF SEQUENCES: 1243  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071  
;  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
;  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/363,240A  
; FILING DATE: December 23, 1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 210/096  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600

;; SOFTWARE: Word Perfect 5.1  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/363,240A  
;; FILING DATE: December 23, 1994  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER:  
;; FILING DATE:  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Warburg, Richard  
;; REGISTRATION NUMBER: 32,327  
;; REFERENCE/DOCKET NUMBER: 210/096  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (213) 489-1600  
;; TELEFAX: (213) 955-0440  
;; TELEX: 67-3510  
;;  
;; INFORMATION FOR SEQ ID NO: 1091:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 18 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;;  
US-08-363-240A-1091

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 61.1%; Pred. No. 26;  
Matches 11; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

Qy 507 ttgatcagtccttgact 524  
Db 1 DUGAUCAGUCCAUAGACU 18

RESULT 20  
US-08-363-240A-1092  
; Sequence 1092, Application US/08363240A  
; Patent No. 5705388  
; GENERAL INFORMATION:  
; APPLICANT: Couture, Larry  
; APPLICANT: McSwiggen, James  
; APPLICANT: Bisgaier, Charles  
; APPLICANT: Pape, Michael  
; TITLE OF INVENTION: METHOD AND REAGENT FOR  
; TITLE OF INVENTION: PREVENTION, INHIBITION OF  
; TITLE OF INVENTION: PROGRESSION AND REGRESSION  
; TITLE OF INVENTION: OF VASCULAR DISEASES  
; NUMBER OF SEQUENCES: 1243  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071  
;  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
;  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/363,240A  
; FILING DATE: December 23, 1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 210/096  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600

TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 1092:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-363-240A-1092

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 26;  
Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 546 acctccagatcaacacac 563  
|||||:|||||:  
DB 1 ACCUCCAGAUCCACAC 18

RESULT 21  
US-08-363-240A-1093  
; Sequence 1093, Application US/08363240A  
; Patent No. 5705388  
; GENERAL INFORMATION:  
; APPLICANT: Couture, Larry  
; APPLICANT: McSwiggen, James  
; APPLICANT: Bisgaier, Charles  
; APPLICANT: Pape, Michael  
; TITLE OF INVENTION: METHOD AND REAGENT FOR  
; TITLE OF INVENTION: PREVENTION, INHIBITION OF  
; TITLE OF INVENTION: PROGRESSION AND REGRESSION  
; NUMBER OF SEQUENCES: 1243  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; CITY: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/363,240A  
FILING DATE: December 23, 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 210/096  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 1093:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-363-240A-1093

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 83.3%; Pred. No. 26;

Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;  
QY 558 acacacagctgacctgtg 575  
|||||:|||||:  
DB 1 ACACACAGCUGACUGUG 18

RESULT 22  
US-08-363-240A-1094  
; Sequence 1094, Application US/08363240A  
; Patent No. 5705388  
; GENERAL INFORMATION:  
; APPLICANT: Couture, Larry  
; APPLICANT: McSwiggen, James  
; APPLICANT: Bisgaier, Charles  
; APPLICANT: Pape, Michael  
; TITLE OF INVENTION: METHOD AND REAGENT FOR  
; TITLE OF INVENTION: PREVENTION, INHIBITION OF  
; TITLE OF INVENTION: PROGRESSION AND REGRESSION  
; NUMBER OF SEQUENCES: 1243  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; CITY: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/363,240A  
FILING DATE: December 23, 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 210/096  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 1094:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-363-240A-1094

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 77.8%; Pred. No. 26;  
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 561 cacagctgacctgtgact 578  
|||||:|||||:  
DB 1 CACAGCUGACUGUGACU 18

RESULT 23  
US-08-363-240A-1095  
; Sequence 1095, Application US/08363240A  
; Patent No. 5705388  
; GENERAL INFORMATION:  
; APPLICANT: Couture, Larry

APPLICANT: McSwiggen, James  
APPLICANT: Bisgaier, Charles  
APPLICANT: Pape, Michael  
TITLE OF INVENTION: METHOD AND REAGENT FOR  
TITLE OF INVENTION: PREVENTION, INHIBITION OF  
TITLE OF INVENTION: PROGRESSION AND REGRESSION  
TITLE OF INVENTION: OF VASCULAR DISEASES  
NUMBER OF SEQUENCES: 1243  
CORRESPONDENCE ADDRESS:

ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/363,240A  
FILING DATE: December 23, 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:

ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 210/096  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 1095:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-363-240A-1095

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 26;  
Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 585 gagtgcggaccgagtgccc 602  
Db 1 GAGUGCGGACCGAGCCG 18

## RESULT 24

US-08-363-240A-1096  
Sequence 1096, Application US/08363240A  
Patent No. 5705388

GENERAL INFORMATION:  
APPLICANT: Couture, Larry  
APPLICANT: McSwiggen, James  
APPLICANT: Bisgaier, Charles  
APPLICANT: Pape, Michael  
TITLE OF INVENTION: METHOD AND REAGENT FOR  
TITLE OF INVENTION: PREVENTION, INHIBITION OF  
TITLE OF INVENTION: PROGRESSION AND REGRESSION  
TITLE OF INVENTION: OF VASCULAR DISEASES  
NUMBER OF SEQUENCES: 1243  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles

STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/363,240A  
FILING DATE: December 23, 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:

ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 210/096  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 1096:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-363-240A-1096

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 26;  
Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 589 gcggaccgagtgccctga 606  
Db 1 CGGACCGAGCCGCGG 18

## RESULT 25

US-08-363-240A-1097  
Sequence 1097, Application US/08363240A  
Patent No. 5705388

GENERAL INFORMATION:  
APPLICANT: Couture, Larry  
APPLICANT: McSwiggen, James  
APPLICANT: Bisgaier, Charles  
APPLICANT: Pape, Michael  
TITLE OF INVENTION: METHOD AND REAGENT FOR  
TITLE OF INVENTION: PREVENTION, INHIBITION OF  
TITLE OF INVENTION: PROGRESSION AND REGRESSION  
TITLE OF INVENTION: OF VASCULAR DISEASES  
NUMBER OF SEQUENCES: 1243  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/363,240A  
FILING DATE: December 23, 1994  
PRIOR APPLICATION DATA:



;; APPLICATION NUMBER:  
;; FILING DATE:  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Warburg, Richard  
;; REGISTRATION NUMBER: 32,327  
;; REFERENCE/DOCKET NUMBER: 210/096  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (213) 489-1600  
;; TELEFAX: (213) 955-0440  
;; TELEX: 67-3510  
;; INFORMATION FOR SEQ ID NO: 1097:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 18 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
US-08-363-240A-1097

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 72.2%; Pred. No. 26;  
Matches 13; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 598 tgccctgactgtacct 615  
:||||:||||:||||:  
DB 1 UGCCCCUGACUCUACCU 18

RESULT 26  
US-08-363-240A-1098  
; Sequence 1098, Application US/08363240A  
; Patent No. 5705388  
; GENERAL INFORMATION:  
; APPLICANT: Couture, Larry  
; APPLICANT: McSwiggen, James  
; APPLICANT: Bisgaier, Charles  
; APPLICANT: Pape, Michael  
; TITLE OF INVENTION: METHOD AND REAGENT FOR  
; TITLE OF INVENTION: PREVENTION, INHIBITION OF  
; TITLE OF INVENTION: PROGRESSION AND REGRESSION  
; TITLE OF INVENTION: OF VASCULAR DISEASES  
; NUMBER OF SEQUENCES: 1243  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071

COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/363,240A  
; FILING DATE: December 23, 1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 210/096  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 1098:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 18 base pairs

;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
US-08-363-240A-1098

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 61.1%; Pred. No. 26;  
Matches 11; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 609 gctacctgtcttcacata 626  
:||||:||||:||||:  
DB 1 GCUACUGUCUUCUCAUA 18

RESULT 27  
US-08-363-240A-1099  
; Sequence 1099, Application US/08363240A  
; Patent No. 5705388  
; GENERAL INFORMATION:  
; APPLICANT: Couture, Larry  
; APPLICANT: McSwiggen, James  
; APPLICANT: Bisgaier, Charles  
; APPLICANT: Pape, Michael  
; TITLE OF INVENTION: METHOD AND REAGENT FOR  
; TITLE OF INVENTION: PREVENTION, INHIBITION OF  
; TITLE OF INVENTION: PROGRESSION AND REGRESSION  
; TITLE OF INVENTION: OF VASCULAR DISEASES  
; NUMBER OF SEQUENCES: 1243  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071  
COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/363,240A  
; FILING DATE: December 23, 1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 210/096  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 1099:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 18 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-363-240A-1099

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 72.2%; Pred. No. 26;  
Matches 13; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 624 ataagctgctctgcac 641  
:||||:||||:||||:  
DB 1 AUAAGCUGCUCGCAUC 18

## RESULT 28

US-08-363-240A-1100  
; Sequence 1100, Application US/08363240A  
; Patent No. 5705388  
; GENERAL INFORMATION:  
; APPLICANT: Couture, Larry  
; APPLICANT: McSwiggen, James  
; APPLICANT: Bisgaier, Charles  
; APPLICANT: Pape, Michael  
; TITLE OF INVENTION: METHOD AND REAGENT FOR  
; TITLE OF INVENTION: PREVENTION, INHIBITION OF  
; TITLE OF INVENTION: PROGRESSION AND REGRESSION  
; TITLE OF INVENTION: OF VASCULAR DISEASES  
; NUMBER OF SEQUENCES: 1243  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071

COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/363,240A  
; FILING DATE: December 23, 1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 210/096  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 1100:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 18 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-363-240A-1100

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 77.8%; Pred. No. 26;  
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 669 tcaagcagctgttcacaa 686  
Db 1 UCAAGCAGCUGUUCACAA 18

## RESULT 29

US-08-363-240A-1101  
; Sequence 1101, Application US/08363240A  
; Patent No. 5705388  
; GENERAL INFORMATION:  
; APPLICANT: Couture, Larry  
; APPLICANT: McSwiggen, James  
; APPLICANT: Bisgaier, Charles  
; APPLICANT: Pape, Michael  
; TITLE OF INVENTION: METHOD AND REAGENT FOR  
; TITLE OF INVENTION: PREVENTION, INHIBITION OF

; TITLE OF INVENTION: PROGRESSION AND REGRESSION  
; TITLE OF INVENTION: OF VASCULAR DISEASES  
; NUMBER OF SEQUENCES: 1243  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/363,240A  
; FILING DATE: December 23, 1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 210/096  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 1101:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 18 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-363-240A-1101

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 72.2%; Pred. No. 26;  
Matches 13; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 672 agcagctgttcacaaatt 689  
Db 1 AGCAGCUGUUCACAAAU 18

## RESULT 30

US-08-363-240A-1102  
; Sequence 1102, Application US/08363240A  
; Patent No. 5705388  
; GENERAL INFORMATION:  
; APPLICANT: Couture, Larry  
; APPLICANT: McSwiggen, James  
; APPLICANT: Bisgaier, Charles  
; APPLICANT: Pape, Michael  
; TITLE OF INVENTION: METHOD AND REAGENT FOR  
; TITLE OF INVENTION: PREVENTION, INHIBITION OF  
; TITLE OF INVENTION: PROGRESSION AND REGRESSION  
; TITLE OF INVENTION: OF VASCULAR DISEASES  
; NUMBER OF SEQUENCES: 1243  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
CURRENT APPLICATION DATA:  
SOFTWARE: Word Perfect 5.1  
APPLICATION NUMBER: US/08/363,240A  
FILING DATE: December 23, 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 210/096  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 1102:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-363-240A-1102

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 26;  
Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 720 agggacagatctgcaag 737  
|||||||:|||||  
Db 1 AGGGACAGAUUGCAAG 18

RESULT 31  
US-08-363-240A-1103  
; Sequence 1103, Application US/08363240A  
; Patent No. 5705388  
; GENERAL INFORMATION:  
; APPLICANT: Couture, Larry  
; APPLICANT: McSwiggen, James  
; APPLICANT: Bisgaier, Charles  
; APPLICANT: Pape, Michael  
; TITLE OF INVENTION: METHOD AND REAGENT FOR  
; TITLE OF INVENTION: PREVENTION, INHIBITION OF  
; TITLE OF INVENTION: PROGRESSION AND REGRESSION  
; TITLE OF INVENTION: OF VASCULAR DISEASES  
; NUMBER OF SEQUENCES: 1243  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/363,240A  
; FILING DATE: December 23, 1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard  
; REGISTRATION NUMBER: 32,327

REFERENCE/DOCKET NUMBER: 210/096  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 1103:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-363-240A-1103

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 66.7%; Pred. No. 26;  
Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 760 catggccgattttgtcca 777  
|||||||:|||||  
Db 1 CAUGGCCGAUUUGUCCA 18

RESULT 32  
US-08-363-240A-1104  
; Sequence 1104, Application US/08363240A  
; Patent No. 5705388  
; GENERAL INFORMATION:  
; APPLICANT: Couture, Larry  
; APPLICANT: McSwiggen, James  
; APPLICANT: Bisgaier, Charles  
; APPLICANT: Pape, Michael  
; TITLE OF INVENTION: METHOD AND REAGENT FOR  
; TITLE OF INVENTION: PREVENTION, INHIBITION OF  
; TITLE OF INVENTION: PROGRESSION AND REGRESSION  
; TITLE OF INVENTION: OF VASCULAR DISEASES  
; NUMBER OF SEQUENCES: 1243  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/363,240A  
; FILING DATE: December 23, 1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 210/096  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 1104:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 18 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; US-08-363-240A-1104

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 72.2%; Pred. No. 26;  
Matches 13; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 796 ccttcagatgagacat 813  
||:||||:||||:|  
Db 1 CCUUCAGAGGAGACAU 18

## RESULT 33

US-08-363-240A-1105  
; Sequence 1105, Application US/08363240A

; Patent No. 5705388

; GENERAL INFORMATION:

; APPLICANT: Couture, Larry

; APPLICANT: McSwiggen, James

; APPLICANT: Bisgaier, Charles

; APPLICANT: Pape, Michael

; TITLE OF INVENTION: METHOD AND REAGENT FOR

; TITLE OF INVENTION: PREVENTION, INHIBITION OF

; TITLE OF INVENTION: PROGRESSION AND REGRESSION

; TITLE OF INVENTION: OF VASCULAR DISEASES

; NUMBER OF SEQUENCES: 1243

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Lyon & Lyon

; STREET: 633 West Fifth Street

; STREET: Suite 4700

; CITY: Los Angeles

; STATE: California

; COUNTRY: U.S.A.

; ZIP: 90071

; COMPUTER READABLE FORM:

; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

; MEDIUM TYPE: storage

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: IBM P.C. DOS 5.0

; SOFTWARE: Word Perfect 5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/363,240A

; FILING DATE: December 23, 1994

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Warburg, Richard

; REGISTRATION NUMBER: 32,327

; REFERENCE/DOCKET NUMBER: 210/096

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (213) 489-1600

; TELEFAX: (213) 955-0440

; TELEX: 67-3510

; INFORMATION FOR SEQ ID NO: 1105:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 18 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; US-08-363-240A-1105

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 77.8%; Pred. No. 26;  
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 847 catcacgctccctacct 864  
||:||||:||||:|  
Db 1 CAUCACGCCUCCUACCU 18

## RESULT 34

US-08-363-240A-1106

; Sequence 1106, Application US/08363240A

; Patent No. 5705388

; GENERAL INFORMATION:

; APPLICANT: Couture, Larry

; APPLICANT: McSwiggen, James

; APPLICANT: Bisgaier, Charles

; APPLICANT: Pape, Michael

; TITLE OF INVENTION: METHOD AND REAGENT FOR

; TITLE OF INVENTION: PREVENTION, INHIBITION OF

; TITLE OF INVENTION: PROGRESSION AND REGRESSION

; TITLE OF INVENTION: OF VASCULAR DISEASES

; NUMBER OF SEQUENCES: 1243

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Lyon & Lyon

; STREET: 633 West Fifth Street

; STREET: Suite 4700

; CITY: Los Angeles

; STATE: California

; COUNTRY: U.S.A.

; ZIP: 90071

; COMPUTER READABLE FORM:

; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

; MEDIUM TYPE: storage

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: IBM P.C. DOS 5.0

; SOFTWARE: Word Perfect 5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/363,240A

; FILING DATE: December 23, 1994

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Warburg, Richard

; REGISTRATION NUMBER: 32,327

; REFERENCE/DOCKET NUMBER: 210/096

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (213) 489-1600

; TELEFAX: (213) 955-0440

; TELEX: 67-3510

; INFORMATION FOR SEQ ID NO: 1106:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 18 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; US-08-363-240A-1106

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 83.3%; Pred. No. 26;  
Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 936 ccacactgctggggact 953  
||||:||||:||||:|  
Db 1 CCACACGCGUGGGGACU 18

## RESULT 35

US-08-363-240A-1107

; Sequence 1107, Application US/08363240A

; Patent No. 5705388

; GENERAL INFORMATION:

; APPLICANT: Couture, Larry

; APPLICANT: McSwiggen, James

; APPLICANT: Bisgaier, Charles

; APPLICANT: Pape, Michael

; TITLE OF INVENTION: METHOD AND REAGENT FOR

; TITLE OF INVENTION: PREVENTION, INHIBITION OF

; TITLE OF INVENTION: PROGRESSION AND REGRESSION

; TITLE OF INVENTION: OF VASCULAR DISEASES

; NUMBER OF SEQUENCES: 1243

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Lyon & Lyon

STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/363,240A  
FILING DATE: December 23, 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 210/096  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 1107:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-363-240A-1107

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 77.8%; Pred. No. 26;  
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
QY 1019 gatggccgcctgctgc 1036  
||:|||||:|||||  
DB 1 GAUGGCCGCCUCAGUCUC 18

RESULT 36  
US-08-363-240A-1108  
Sequence 1108, Application US/08363240A  
Patent No. 5705388  
GENERAL INFORMATION:  
APPLICANT: Couture, Larry  
APPLICANT: McSwiggen, James  
APPLICANT: Bisgaier, Charles  
APPLICANT: Pape, Michael  
TITLE OF INVENTION: METHOD AND REAGENT FOR  
TITLE OF INVENTION: PREVENTION, INHIBITION OF  
TITLE OF INVENTION: PROGRESSION AND REGRESSION  
TITLE OF INVENTION: OF VASCULAR DISEASES  
NUMBER OF SEQUENCES: 1243  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/363,240A  
FILING DATE: December 23, 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 210/096  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 1108:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-363-240A-1108

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 77.8%; Pred. No. 26;  
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
QY 1031 atgtcagcctgatggga 1048  
|:|||||:|||||  
DB 1 AUGCUCAGCCUGAUGGA 18

RESULT 37  
US-08-363-240A-1109  
Sequence 1109, Application US/08363240A  
Patent No. 5705388  
GENERAL INFORMATION:  
APPLICANT: Couture, Larry  
APPLICANT: McSwiggen, James  
APPLICANT: Bisgaier, Charles  
APPLICANT: Pape, Michael  
TITLE OF INVENTION: METHOD AND REAGENT FOR  
TITLE OF INVENTION: PREVENTION, INHIBITION OF  
TITLE OF INVENTION: PROGRESSION AND REGRESSION  
TITLE OF INVENTION: OF VASCULAR DISEASES  
NUMBER OF SEQUENCES: 1243  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/363,240A  
FILING DATE: December 23, 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 210/096  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510

INFORMATION FOR SEQ ID NO: 1109:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 18 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 US-08-363-240A-1109

Query Match 1.0%; Score 18; DB 1; Length 18;  
 Best Local Similarity 83.3%; Pred. No. 26;  
 Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1035 tcagcctgatggagacg 1052  
 :||||:|||||  
 Db 1 UCAGCCUGAUGGAGACG 18

RESULT 38  
 US-08-363-240A-1110  
 ; Sequence 1110, Application US/08363240A  
 ; Patent No. 5705388  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Couture, Larry  
 ; APPLICANT: McSwiggen, James  
 ; APPLICANT: Bisgaler, Charles  
 ; APPLICANT: Pape, Michael  
 ; TITLE OF INVENTION: METHOD AND REAGENT FOR  
 ; TITLE OF INVENTION: PREVENTION, INHIBITION OF  
 ; TITLE OF INVENTION: PROGRESSION AND REGRESSION  
 ; TITLE OF INVENTION: OF VASCULAR DISEASES  
 ; NUMBER OF SEQUENCES: 1243  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Lyon & Lyon  
 ; STREET: 633 West Fifth Street  
 ; STREET: Suite 4700  
 ; CITY: Los Angeles  
 ; STATE: California  
 ; COUNTRY: U.S.A.  
 ; ZIP: 90071

COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
 ; MEDIUM TYPE: Storage  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: IBM P.C. DOS 5.0  
 ; SOFTWARE: Word Perfect 5.1  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/363,240A  
 ; FILING DATE: December 23, 1994  
 ; PRIOR APPLICATION NUMBER:  
 ; FILING DATE:  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Warburg, Richard  
 ; REGISTRATION NUMBER: 32,327  
 ; REFERENCE/DOCKET NUMBER: 210/096  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (213) 489-1600  
 ; TELEFAX: (213) 955-0440  
 ; TELEX: 67-3510  
 ; INFORMATION FOR SEQ ID NO: 1110:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 18 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 US-08-363-240A-1110

Query Match 1.0%; Score 18; DB 1; Length 18;  
 Best Local Similarity 83.3%; Pred. No. 26;  
 Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1115 gtcggcggtttcccccgc 1132  
 :|||||:|||||  
 Db 1 GUGGGCGGUCCCCGACG 18

RESULT 39  
 US-08-363-240A-1111  
 ; Sequence 1111, Application US/08363240A  
 ; Patent No. 5705388  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Couture, Larry  
 ; APPLICANT: McSwiggen, James  
 ; APPLICANT: Bisgaler, Charles  
 ; APPLICANT: Pape, Michael  
 ; TITLE OF INVENTION: METHOD AND REAGENT FOR  
 ; TITLE OF INVENTION: PREVENTION, INHIBITION OF  
 ; TITLE OF INVENTION: PROGRESSION AND REGRESSION  
 ; TITLE OF INVENTION: OF VASCULAR DISEASES  
 ; NUMBER OF SEQUENCES: 1243  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Lyon & Lyon  
 ; STREET: 633 West Fifth Street  
 ; STREET: Suite 4700  
 ; CITY: Los Angeles  
 ; STATE: California  
 ; COUNTRY: U.S.A.  
 ; ZIP: 90071

COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
 ; MEDIUM TYPE: Storage  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: IBM P.C. DOS 5.0  
 ; SOFTWARE: Word Perfect 5.1  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/363,240A  
 ; FILING DATE: December 23, 1994  
 ; PRIOR APPLICATION NUMBER:  
 ; FILING DATE:  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Warburg, Richard  
 ; REGISTRATION NUMBER: 32,327  
 ; REFERENCE/DOCKET NUMBER: 210/096  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (213) 489-1600  
 ; TELEFAX: (213) 955-0440  
 ; TELEX: 67-3510  
 ; INFORMATION FOR SEQ ID NO: 1111:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 18 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 US-08-363-240A-1111

Query Match 1.0%; Score 18; DB 1; Length 18;  
 Best Local Similarity 77.8%; Pred. No. 26;  
 Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1141 agtcacgcttcactgctt 1158  
 :|||||:|||||  
 Db 1 AGUCACCGCCACUGCCU 18

RESULT 40  
 US-08-363-240A-1112  
 ; Sequence 1112, Application US/08363240A  
 ; Patent No. 5705388  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Couture, Larry  
 ; APPLICANT: McSwiggen, James  
 ; APPLICANT: Bisgaler, Charles

APPLICANT: Pape, Michael  
TITLE OF INVENTION: METHOD AND REAGENT FOR  
PREVENTION, INHIBITION OF  
PROGRESSION AND REGRESSION  
OF VASCULAR DISEASES  
NUMBER OF SEQUENCES: 1243  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
SUITE: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: Storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/363,240A  
FILING DATE: December 23, 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 210/096  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 1112:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-363-240A-1112

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 77.8%; Pred. No. 26;  
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1148 gtccactgctcaagatg 1165  
1:|||||:|||||:  
DB 1 GUCCACUGCCUCAGAUG 18

RESULT 41  
US-08-363-240A-1113  
Sequence 1113, Application US/08363240A  
Patent No. 5705388  
GENERAL INFORMATION:  
APPLICANT: Couture, Larry  
APPLICANT: McSwiggen, James  
APPLICANT: Bisgaier, Charles  
APPLICANT: Pape, Michael  
TITLE OF INVENTION: METHOD AND REAGENT FOR  
PREVENTION, INHIBITION OF  
PROGRESSION AND REGRESSION  
OF VASCULAR DISEASES  
NUMBER OF SEQUENCES: 1243  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
SUITE: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.

ZIP: 90071  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: Storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/363,240A  
FILING DATE: December 23, 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 210/096  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 1113:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-363-240A-1113

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 26;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1234 acgcccagaccagcaaca 1251  
|||||:|||||:  
DB 1 ACGCCACAGACCAGCAACA 18

RESULT 42  
US-08-363-240A-1114  
Sequence 1114, Application US/08363240A  
Patent No. 5705388  
GENERAL INFORMATION:  
APPLICANT: Couture, Larry  
APPLICANT: McSwiggen, James  
APPLICANT: Bisgaier, Charles  
APPLICANT: Pape, Michael  
TITLE OF INVENTION: METHOD AND REAGENT FOR  
PREVENTION, INHIBITION OF  
PROGRESSION AND REGRESSION  
OF VASCULAR DISEASES  
NUMBER OF SEQUENCES: 1243  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
SUITE: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: Storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/363,240A  
FILING DATE: December 23, 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:

ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 210/096  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 1114:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-363-240A-1114

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 83.3%; Pred. No. 26;  
Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1285 gactaccgtccaggctc 1302  
|||:||||:|||||:|  
Db 1 GACUACCGUCCAGGCCUC 18

RESULT 43  
US-08-363-240A-1115  
; Sequence 1115, Application US/08363240A  
; Patent No. 5705388  
; GENERAL INFORMATION:  
; APPLICANT: Couture, Larry  
; APPLICANT: McSwiggen, James  
; APPLICANT: Bisgaier, Charles  
; APPLICANT: Pape, Michael  
; TITLE OF INVENTION: METHOD AND REAGENT FOR  
; TITLE OF INVENTION: PREVENTION, INHIBITION OF  
; TITLE OF INVENTION: PROGRESSION AND REGRESSION  
; TITLE OF INVENTION: OF VASCULAR DISEASES  
; NUMBER OF SEQUENCES: 1243  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; CITY: Suite 4700  
; STATE: Los Angeles  
; COUNTRY: U.S.A.  
; ZIP: 90071

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/363,240A  
FILING DATE: December 23, 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 210/096  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 1115:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single

TOPOLOGY: linear  
US-08-363-240A-1115

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 72.2%; Pred. No. 26;  
Matches 13; Conservative 5; Mismatches 0; Indels 0; Gaps 0;  
QY 1338 attccagattacacaa 1355  
|:::|||||:|||||  
Db 1 AUUCCAGAUUACACAA 18

RESULT 44  
US-08-363-240A-1116  
; Sequence 1116, Application US/08363240A  
; Patent No. 5705388  
; GENERAL INFORMATION:  
; APPLICANT: Couture, Larry  
; APPLICANT: McSwiggen, James  
; APPLICANT: Bisgaier, Charles  
; APPLICANT: Pape, Michael  
; TITLE OF INVENTION: METHOD AND REAGENT FOR  
; TITLE OF INVENTION: PREVENTION, INHIBITION OF  
; TITLE OF INVENTION: PROGRESSION AND REGRESSION  
; TITLE OF INVENTION: OF VASCULAR DISEASES  
; NUMBER OF SEQUENCES: 1243  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; CITY: Suite 4700  
; STATE: Los Angeles  
; COUNTRY: U.S.A.  
; ZIP: 90071

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/363,240A  
FILING DATE: December 23, 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 210/096  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 1116:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-363-240A-1116

Query Match 1.0%; Score 18; DB 1; Length 18;  
Best Local Similarity 66.7%; Pred. No. 26;  
Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1354 aaagactgtttccaaatt 1371  
|:|||||:|||||:  
Db 1 AAAGACUGUUCACAAU 18



```

RESULT 45
US-08-363-240A-1117
; Sequence 1117 Application US/08363240A
; Patent No. 5705388
; GENERAL INFORMATION:
; APPLICANT: Couture, Larry
; APPLICANT: McSwiggen, James
; APPLICANT: Bisgaier, Charles
; APPLICANT: Pape, Michael
; TITLE OF INVENTION: METHOD AND REAGENT FOR
; TITLE OF INVENTION: PREVENTION, INHIBITION OF
; TITLE OF INVENTION: PROGRESSION AND REGRESSION
; TITLE OF INVENTION: OF VASCULAR DISEASES
; NUMBER OF SEQUENCES: 1243
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/363,240A
; FILING DATE: December 23, 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 210/096
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 1117:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-363-240A-1117

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Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 26;
Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 1376 gagagagctccgagtc 1393
Db 1 GAGAGCAGCUCGAGUCC 18

```

Search completed: April 20, 2002, 01:10:12  
Job time: 11211 sec

GenCore version 4.5  
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OM nucleic - nucleic search, using sw model

Run on: April 19, 2002, 21:54:56 ; Search time 1541.31 Seconds  
(without alignments)  
12456.692 Million cell updates/sec

Title: US-09-925-139-3

Perfect score: 1787

Sequence: 1 gtgaatctctgggcccagga.....ggcattaaagtctgtatccc 1787

Scoring table: OLIGO\_NUC

Gapop 60.0 , Gapext 60.0

Searched: 11351937 seqs, 5372889281 residues

Word size : 0

Total number of hits satisfying chosen parameters: 80718

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Listing first 45 summaries

Database :

EST:\*  
1: em\_estfun:\*  
2: em\_esthum:\*  
3: em\_estin:\*  
4: em\_estom:\*  
5: em\_estpl:\*  
6: em\_estba:\*  
7: em\_estro:\*  
8: em\_estov:\*  
9: em\_htc:\*  
10: gb\_est1:\*  
11: gb\_est2:\*  
12: gb\_htc:\*  
13: gb\_gss:\*  
14: em\_gss\_fun:\*  
15: em\_gss\_hum:\*  
16: em\_gss\_inv:\*  
17: em\_gss\_pln:\*  
18: em\_gss\_pro:\*  
19: em\_gss\_rod:\*  
20: em\_gss\_vrt:\*  
21: em\_gss\_other:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	15	0.8	43	10 AI014286	AI014286 am46a02.s
2	15	0.8	44	13 AZ512770	AZ512770 IM0358002
3	14	0.8	19	13 AZ510143	AZ510143 IM0354P21
4	14	0.8	31	13 AZ979245	AZ979245 2M0255D20
5	14	0.8	37	10 AA995811	AA995811 OS05e12.s
6	14	0.8	43	13 AZ595978	AZ595978 IM0408023
7	14	0.8	47	13 AZ827718	AZ827718 2M0104M16
8	14	0.8	48	10 AI215970	AI215970 qh06904.x
9	14	0.8	48	13 AZ834843	AZ834843 2M0117E18
10	14	0.8	49	13 TA3D11Q	TA3D11Q
11	14	0.8	50	10 AI252059	AI252059 T. brucei
12	14	0.8	50	10 AU104702	AU104702 qv39f04.x
					AU104702 AU104702

13	13	0.7	19	10	AI027323	AI027323 ow46a07.s
14	13	0.7	19	13	AZ792979	AZ792979 2M0046G04
15	13	0.7	22	10	AA959224	AA959224 ua10h06.1
16	13	0.7	22	13	AZ830573	AZ830573 2M0109G23
17	13	0.7	23	13	AZ499076	AZ499076 IM0336H08
18	13	0.7	24	13	AZ820462	AZ820462 2M0092H02
19	13	0.7	26	13	AZ377014	AZ377014 IM0131F08
20	13	0.7	27	13	AZ621737	AZ621737 IM0455F15
21	13	0.7	30	13	AZ783172	AZ783172 2M0024F08
22	13	0.7	31	10	AA865448	AA865448 OH50A06.S
23	13	0.7	31	10	AA867755	AA867755 VX16S08.1
24	13	0.7	31	13	AZ777749	AZ777749 2M0012H13
25	13	0.7	31	13	AZ938547	AZ938547 2M0197J10
26	13	0.7	32	13	AZ618214	AZ618214 IM0449O16
27	13	0.7	34	10	AA920912	AA920912 Y784F09.1
28	13	0.7	35	13	AZ469734	AZ469734 IM0283J19
29	13	0.7	36	13	AZ825411	AZ825411 2M0100A09
30	13	0.7	37	10	AA978054	AA978054 OQ55H01.S
31	13	0.7	39	13	AZ663277	AZ663277 IM0542O15
32	13	0.7	39	13	AZ781715	AZ781715 2M021F16
33	13	0.7	39	13	AZ825536	AZ825536 2M0100J14
34	13	0.7	40	10	AA680336	AA680336 ac83609.S
35	13	0.7	40	10	AI001093	AI001093 OS94C01.S
36	13	0.7	42	10	BE383987	BE383987 601273364
37	13	0.7	44	10	AA922988	AA922988 OK77F09.S
38	13	0.7	44	11	T48887	T48887 Yb07a05.r1
39	13	0.7	45	13	AZ498888	AZ498888 IM0336E21
40	13	0.7	45	13	AZ480635	AZ480635 IM0302M18
41	13	0.7	46	10	AA730149	AA730149 NX38F03.S
42	13	0.7	46	10	AA902889	AA902889 OJ49Q04.S
43	13	0.7	46	10	AI026096	AI026096 OV94H09.S
44	13	0.7	46	10	AI264859	AI264859 GX66b12.x
45	13	0.7	46	10	AI439347	AI439347 t154F06.x

#### ALIGNMENTS

RESULT 1

AI014286

LOCUS

DEFINITION

AI014286 43 bp mRNA EST 15-JUN-1998  
am46a02.sl Johnston frontal cortex Homo sapiens cDNA clone  
IMAGE:1538570 3' similar to gb:M87789 IG GAMMA-1 CHAIN C REGION  
(HUMAN); mRNA sequence.

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

CONTACT: Wilson RK

Washington University School of Medicine

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108

Tel: 314 286 1800

Fax: 314 286 1810

Email: est@watson.wustl.edu

This clone is available royalty-free through LNL ; contact the

IMAGE Consortium (info@image.llnl.gov) for further information.

Trace considered overall poor quality

Seq primer: -40m13 fwd. ET from Amersham

High quality sequence stop: 1.

Location/Qualifiers

1..43

/organism="Homo sapiens"

/db\_xref="taxon:9606"

```

/clone="IMAGE:1538570"
/clone_lib="Johnston frontal cortex"
/sex="male"
/tissue_type="pooled frontal lobe"
/dev_stage="adult"
/lab_host="SOLR (kanamycin resistant)"
/note="Organ: Brain; Vector: Bluescript SK-; Site:1: EcoRI
; Stanley Neuropathology Consortium (www.stanleylab.org)
brains S-58, S-65, S-67, S-78. Random + oligo-dT primed
into EcoRI site of ZAP II Vector. Mass excised. Avg
insert length 1.9kb. Custom library provided by Dr. Nancy
Johnston [(410) 614-3918, nlj@welchlink.welch.jhu.edu]."
```

BASE COUNT 5 a 15 c 13 g 10 t  
ORIGIN

Query Match 0.8%; Score 15; DB 10; Length 43;  
Best Local Similarity 100.0%; Pred. No. 2.3e+04;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 atctctggggccagg 19  
|||||  
Db 5 ATCTCTGGGGCCAGG 19

RESULT .2  
AZ512770/c 44 bp DNA GSS 05-OCT-2000  
LOCUS  
DEFINITION  
clone UUGC1M0358002 R, DNA sequence.

ACCESSION  
AZ512770  
VERSION  
GSS.  
KEYWORDS  
SOURCE  
ORGANISM

Mus musculus  
house mouse.  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
1 (bases 1 to 44)  
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,  
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly  
M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.  
and Wright,D., Weiss,R.  
Mouse whole genome scaffolding with paired end reads from 10kb  
plasmid inserts

JOURNAL  
COMMENT  
Unpublished (2000)  
Contact: Robert B. Weiss  
University of Utah Genome Center  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0358 row: 0 column: 02  
Seq primer: CACACAGGAACACGCTATGACC  
Class: plasmid ends  
High quality sequence stop: 44.  
Location/Qualifiers

FEATURES  
source  
1. 44  
/organism="Mus musculus"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC1M0358002"  
/clone\_lib="Mouse 10kb plasmid UUGC1M library"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
/note="Vector: PWD42nv; Purified genomic DNA from M.  
musculus C57BL/6J (male) was obtained from the Jackson  
Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA  
was hydrodynamically sheared by repeated passage through a

0.005 inch orifice at constant velocity. The sheared DNA  
was blunt end-repaired with T4 DNA polymerase and T4  
polynucleotide kinase. Adaptor oligonucleotides were  
ligated to the blunt ends in high molar excess. The  
adapted DNA was purified and size-selected for a 9.5 to  
10.5 kb range using preparative agarose gel  
electrophoresis. Vector DNA was prepared from a derivative  
of pWD42 (gil4732114|gb|AF129072.1), a copy-number  
inducible derivative of plasmid R1. The vector was ligated  
with adaptors complementary to the insert adaptors and  
purified. The sheared, adapted mouse DNA was annealed to  
adapted vector DNA, and transformed into  
chemically-competent E. coli XL10-Gold (Stratagene) cells  
and selected for ampicillin resistance."

BASE COUNT 12 a 14 c 3 g 15 t  
ORIGIN

Query Match 0.8%; Score 15; DB 13; Length 44;  
Best Local Similarity 100.0%; Pred. No. 2.3e+04;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 392 agcagccaggtggag 406  
|||||  
Db 37 AGCAGCCAGGTGGAG 23

RESULT 3  
AZ510143

LOCUS  
DEFINITION  
clone UUGC1M0354P21 F, DNA sequence.

ACCESSION  
AZ510143  
VERSION  
GSS.  
KEYWORDS  
SOURCE  
ORGANISM

Mus musculus  
house mouse.  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
1 (bases 1 to 19)  
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,  
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly  
M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.  
and Wright,D., Weiss,R.  
Mouse whole genome scaffolding with paired end reads from 10kb  
plasmid inserts

JOURNAL  
COMMENT  
Unpublished (2000)  
Contact: Robert B. Weiss  
University of Utah Genome Center  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0354 row: P column: 21  
Seq primer: CGTGTAAACGACGCGCCAGT  
Class: plasmid ends  
High quality sequence stop: 19.  
Location/Qualifiers

FEATURES  
source  
1. 19  
/organism="Mus musculus"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC1M0354P21"  
/clone\_lib="Mouse 10kb plasmid UUGC1M library"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
/note="Vector: PWD42nv; Purified genomic DNA from M.  
musculus C57BL/6J (male) was obtained from the Jackson  
Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA

was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (gi14732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 4 a 13 c 0 g 2 t  
ORIGIN

Query Match 0.8%; Score 14; DB 13; Length 19;  
Best Local Similarity 100.0%; Pred. No. 6.6e+04;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 915 tccccctcccacc 928  
|||||  
Db 5 TCCCCCTCCCCACC 18

RESULT 4  
A2979245/c  
LOCUS  
DEFINITION 2M0255D20R Mouse 10kb plasmid UUGC2M library Mus musculus genomic clone UUGC2M0255D20 R, DNA sequence. 27-APR-2001  
ACCESSION A2979245  
VERSION A2979245.1 GI:13850472  
KEYWORDS GSS.  
SOURCE house mouse.  
ORGANISM Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
1 (bases 1 to 31)  
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D., Weiss,R.  
TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
JOURNAL Unpublished (2000)  
COMMENT Contact: Robert B. Weiss  
University of Utah Genome Center  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0255 row: D column: 20  
Seq primer: CACACAGGAACAGCTATGACC  
Class: plasmid ends  
High quality sequence stop: 31.  
Location/Qualifiers  
1. .31  
/organism="Mus musculus"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC2M0255D20"  
/clone\_lib="Mouse 10kb plasmid UUGC2M library"  
/sex="Female"  
/lab\_host="E. coli strain XL10-Gold, Tl-resistant, F-"  
/note="Vector: pMD42nv; Purified genomic DNA from M. musculus C57BL/6J (female) was obtained from the Jackson Laboratory Mouse DNA Resource

FEATURES source  
1. .37  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:1604494"  
/clone\_lib="NCI\_CGAP\_Lu5"  
/tissue\_type="carcinoid"  
/lab\_host="DH10B"  
/note="Organ: lung; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; 1st strand cDNA was prepared from a neuroendocrine lung carcinoid, and was then primed with a Not I - oligo(dT) primer. Double-stranded cDNA was ligated

(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (gi14732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 8 a 3 c 16 g 4 t  
ORIGIN

Query Match 0.8%; Score 14; DB 13; Length 31;  
Best Local Similarity 100.0%; Pred. No. 6.9e+04;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 915 tccccctcccacc 928  
|||||  
Db 30 TCCCCCTCCCCACC 17

RESULT 5  
AA995811/c  
LOCUS  
DEFINITION AA995811 37 bp mRNA EST 27-JUL-1998  
Os05612.s1 NCI\_CGAP\_Lu5 Homo sapiens cDNA clone IMAGE:1604494 3, similar to WP:CA7D12.2 CE05430 ;, mRNA sequence.  
ACCESSION AA995811  
VERSION AA995811.1 GI:3182300  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 37)  
REFERENCE NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
AUTHORS National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index  
TITLE Unpublished (1997)  
JOURNAL Contact: Robert Strausberg, Ph.D.  
COMMENT Email: cgaps-r@mail.nih.gov  
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D.; Michael R. Emmert-Buck, M.D., Ph.D.  
CDNA Library Preparation: M. Bento Soares, Ph.D.  
CDNA Library Arrayed by: Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html

Trace considered overall poor quality  
Insert Length: 1425 Std Error: 0.00  
Seq primer: -40ml3 fwd. ET from Amersham  
High quality sequence stop: 1.  
Location/Qualifiers  
1. .37

FEATURES source  
1. .37  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:1604494"  
/clone\_lib="NCI\_CGAP\_Lu5"  
/tissue\_type="carcinoid"  
/lab\_host="DH10B"  
/note="Organ: lung; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; 1st strand cDNA was prepared from a neuroendocrine lung carcinoid, and was then primed with a Not I - oligo(dT) primer. Double-stranded cDNA was ligated

to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7p3 vector. Library is normalized. Library was constructed by Bento Soares and M. Fatima Bonaldo. "

BASE COUNT 12 a 5 c 8 g 12 t  
ORIGIN

Query Match 0.8%; Score 14; DB 10; Length 37;  
Best Local Similarity 100.08; Pred. No. 7.1e+04;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 749 atcttaacatcat 762  
|||||  
Db 27 ATCTTAACATCAT 14

RESULT 6  
AZ595978/c 43 bp DNA GSS 13-DEC-2000  
LOCUS  
DEFINITION  
1M0408023R Mouse 10kb plasmid UUGCLM library Mus musculus genomic  
clone UUGCLM0408023 R, DNA sequence.  
ACCESSION  
AZ595978  
VERSION  
AZ595978.1 GI:11718168  
KEYWORDS  
GSS.  
SOURCE  
house mouse.  
ORGANISM  
Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
1 (bases 1 to 43)  
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,  
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly  
M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.  
and Wright,D., Weiss,R.  
Mouse whole genome scaffolding with paired end reads from 10kb  
plasmid inserts  
Unpublished (2000)  
Contact: Robert B. Weiss  
University of Utah Genome Center  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0408 row: 0 column: 23  
Seq primer: CACACAGGAACAGCTATGACC  
Class: plasmid ends  
High quality sequence stop: 43.  
Location/Qualifiers  
1. .43  
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/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGCLM0408023"  
/clone\_lib="Mouse 10kb plasmid UUGCLM library"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, TI-resistant, F-"  
/note="vector: PWD42nv; Purified genomic DNA from M.  
musculus C57BL/6J (male) was obtained from the Jackson  
Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA  
was hydrodynamically sheared by repeated passage through a  
0.005 inch orifice at constant velocity. The sheared DNA  
was blunt end-repaired with T4 DNA polymerase and T4  
polynucleotide kinase. Adaptor oligonucleotides were  
ligated to the blunt ends in high molar excess. The  
adaptored DNA was purified and size-selected for a 9.5 to  
10.5 kb range using preparative agarose gel  
electrophoresis. Vector DNA was prepared from a derivative  
of pWD42 (gi14732114|gb|AF129072.1), a copy-number  
inducible derivative of plasmid R1. The vector was ligated

FEATURES  
source

1. .43  
/organism="Mus musculus"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGCLM0408023"  
/clone\_lib="Mouse 10kb plasmid UUGCLM library"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, TI-resistant, F-"  
/note="vector: PWD42nv; Purified genomic DNA from M.  
musculus C57BL/6J (male) was obtained from the Jackson  
Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA  
was hydrodynamically sheared by repeated passage through a  
0.005 inch orifice at constant velocity. The sheared DNA  
was blunt end-repaired with T4 DNA polymerase and T4  
polynucleotide kinase. Adaptor oligonucleotides were  
ligated to the blunt ends in high molar excess. The  
adaptored DNA was purified and size-selected for a 9.5 to  
10.5 kb range using preparative agarose gel  
electrophoresis. Vector DNA was prepared from a derivative  
of pWD42 (gi14732114|gb|AF129072.1), a copy-number  
inducible derivative of plasmid R1. The vector was ligated

with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 11 a 1 c 18 g 13 t  
ORIGIN

Query Match 0.8%; Score 14; DB 13; Length 43;  
Best Local Similarity 100.08; Pred. No. 7.2e+04;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1738 cccaactctccct 1751  
|||||  
Db 39 CCCAACTCTCTCCCT 26

RESULT 7  
AZ827718/c 47 bp DNA GSS 20-FEB-2001  
LOCUS  
DEFINITION  
2M0104M16F Mouse 10kb plasmid UUGCLM library Mus musculus genomic  
clone UUGCLM0104M16 F, DNA sequence.  
ACCESSION  
AZ827718  
VERSION  
AZ827718.1 GI:12997626  
KEYWORDS  
GSS.  
SOURCE  
house mouse.  
ORGANISM  
Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
1 (bases 1 to 47)  
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,  
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly  
M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.  
and Wright,D., Weiss,R.  
Mouse whole genome scaffolding with paired end reads from 10kb  
plasmid inserts  
Unpublished (2000)  
Contact: Robert B. Weiss  
University of Utah Genome Center  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0104 row: M column: 16  
Seq primer: CGTTGTAACAGCGGCCAGT  
Class: plasmid ends  
High quality sequence stop: 47.  
Location/Qualifiers  
1. .47  
/organism="Mus musculus"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGCLM0104M16"  
/clone\_lib="Mouse 10kb plasmid UUGCLM library"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, TI-resistant, F-"  
/note="vector: PWD42nv; Purified genomic DNA from M.  
musculus C57BL/6J (male) was obtained from the Jackson  
Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA  
was hydrodynamically sheared by repeated passage through a  
0.005 inch orifice at constant velocity. The sheared DNA  
was blunt end-repaired with T4 DNA polymerase and T4  
polynucleotide kinase. Adaptor oligonucleotides were  
ligated to the blunt ends in high molar excess. The  
adaptored DNA was purified and size-selected for a 9.5 to  
10.5 kb range using preparative agarose gel  
electrophoresis. Vector DNA was prepared from a derivative  
of pWD42 (gi14732114|gb|AF129072.1), a copy-number

FEATURES  
source

1. .47  
/organism="Mus musculus"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGCLM0104M16"  
/clone\_lib="Mouse 10kb plasmid UUGCLM library"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, TI-resistant, F-"  
/note="vector: PWD42nv; Purified genomic DNA from M.  
musculus C57BL/6J (male) was obtained from the Jackson  
Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA  
was hydrodynamically sheared by repeated passage through a  
0.005 inch orifice at constant velocity. The sheared DNA  
was blunt end-repaired with T4 DNA polymerase and T4  
polynucleotide kinase. Adaptor oligonucleotides were  
ligated to the blunt ends in high molar excess. The  
adaptored DNA was purified and size-selected for a 9.5 to  
10.5 kb range using preparative agarose gel  
electrophoresis. Vector DNA was prepared from a derivative  
of pWD42 (gi14732114|gb|AF129072.1), a copy-number

inducible derivative of plasmid RL. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 15 a 13 c 7 g 12 t  
ORIGIN

Query Match 0.8%; Score 14; DB 13; Length 47;  
Best Local Similarity 100.0%; Pred. No. 7.2e+04;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1301 tcctattctaagaa 1314

Db 33 TCCTATTCTAAGAA 20

RESULT 8

LOCUS

DEFINITION A1215970 48 bp mRNA EST 30-NOV-1998  
IMAGE:1843926 3' similar to gb:M68516\_rnal PLASMA SERINE PROTEASE (HUMAN); mRNA sequence.

ACCESSION A1215970

VERSION A1215970.1 GI:3785011

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

TITLE NCI-CCAP http://www.ncbi.nlm.nih.gov/ncicgap.

JOURNAL National Cancer Institute, Cancer Genome Anatomy Project (CGAP),

COMMENT Tumor Gene Index Unpublished (1997)

Contact: Robert Strausberg, Ph.D.

Email: cgapbs-r@mail.nih.gov

This clone is available royalty-free through LLNL; contact the

IMAGE Consortium (info@image.llnl.gov) for further information.

Trace considered overall poor quality

Insert Length: 3306 Std Error: 0.00

Seq primer: -40UP from Gibco

High quality sequence stop: 1.

Location/Qualifiers

1. .48

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone="IMAGE:1843926"

/lab\_host="Soares\_NFL\_T\_GBC\_S1"

/note="Organ: pooled; Vector: p7T3D-Pac (Pharmacia) with

a modified polylinker; Site\_1: Not I; Site\_2: Eco RI;

Equal amounts of plasmid DNA from three normalized

libraries (fetal lung NBHL19W, testis NHT, and B-cell

NCI-CCAP-GC81) were mixed, and ss circles were made in

vitro. Following HAP purification, this DNA was used as

tracer in a subtractive hybridization reaction. The driver

was PCR-amplified cDNAs from pools of 5,000 clones made

from the same 3 libraries. The pools consisted of

I.M.A.G.E. clones 297480-302087, 682632-687239,

726408-728711, and 729096-731399. Subtraction by Bento

Soares and M. Fatima Bonaldo."

BASE COUNT 13 a 17 c 4 g 14 t

ORIGIN

Query Match 0.8%; Score 14; DB 10; Length 48;  
Best Local Similarity 100.0%; Pred. No. 7.2e+04;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1127 ccagccaggccca 1140

Db 11 CCCAGCCAGGCCCA 24

RESULT 9

LOCUS AZ834843

DEFINITION

AZ834843 48 bp DNA GSS 20-FEB-2001

2M0117E18R Mouse 10kb plasmid UUGC1M library Mus musculus genomic

clone UUGC2M0117E18 R, DNA sequence.

ACCESSION AZ834843

VERSION AZ834843.1 GI:13004751

KEYWORDS GSS.

SOURCE house musculus

ORGANISM Mus musculus

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

AUTHORS Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,

Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly

M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhauser,A.

and Wright,D., Weiss,R.

Mouse whole genome scaffolding with paired end reads from 10kb

plasmid inserts

Unpublished (2000)

JOURNAL Contact: Robert B. Weiss

COMMENT University of Utah Genome Center

Contact: Robert B. Weiss

University of Utah

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT

84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00

Plate: 0117 row: E column: 18

Seq primer: CACACAGGACACAGCTATGACC

Class: plasmid ends

High quality sequence stop: 48.

Location/Qualifiers

1. .48

/organism="Mus musculus"

/strain="C57BL/6J"

/db\_xref="taxon:10090"

/clone="UUGC2M0117E18"

/clone\_lib="Mouse 10kb plasmid UUGC1M library"

/sex="Male"

/lab\_host="E. Coli strain XL10-Gold, Tl-resistant, F-"

/note="Vector: PWD42nv; Purified genomic DNA from M.

musculus C57BL/6J (male) was obtained from the Jackson

Laboratory Mouse DNA Resource

(http://www.jax.org/resources/documents/dnares/). The DNA

was hydrodynamically sheared by repeated passage through a

0.005 inch orifice at constant velocity. The sheared DNA

was blunt end-repaired with T4 DNA polymerase and T4

polynucleotide kinase. Adaptor oligonucleotides were

ligated to the blunt ends in high molar excess. The

adapted DNA was purified and size-selected for a 9.5 to

10.5 kb range using preparative agarose gel

electrophoresis. Vector DNA was prepared from a derivative

of PWD42 (gi14732114|gb|AF129072.1), a copy-number

inducible derivative of plasmid RL. The vector was ligated

with adaptors complementary to the insert adaptors and

purified. The sheared, adapted mouse DNA was annealed to

adapted vector DNA, and transformed into

chemically-competent E. coli XL10-Gold (Stratagene) cells

and selected for ampicillin resistance."

BASE COUNT 14 a 14 c 9 g 11 t

ORIGIN

Query Match 0.8%; Score 14; DB 13; Length 48;

Best Local Similarity 100.0%; Pred. No. 7.2e+04;

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1755 ctaaaggcccaactg 1768  
 |||||  
 Db 12 CTAAGGCCCACTG 25

RESULT 10  
 TA3D110/c  
 LOCUS  
 DEFINITION T. brucei sheared genomic DNA clone 3d11, reverse sequence, genomic survey sequence.  
 ACCESSION AL451995  
 VERSION AL451995.1 GI:11854310  
 KEYWORDS GSS.  
 SOURCE Trypanosoma brucei.  
 ORGANISM Trypanosoma brucei.  
 Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae;  
 Trypanosoma.  
 REFERENCE 1 (bases 1 to 49)  
 AUTHORS Hall, N., Bowman, S., Lennard, N.J., Doggett, J., Atkin, R., Chillingworth, C., Ormond, D., Harris, B., El-Sayed, N., Hou, L., Melville, S.E., Rajandream, M.A. and Barrell, B.G.  
 TITLE Direct Submission  
 JOURNAL Submitted (10-DEC-2000) Trypanosoma brucei genome sequencing project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton, Cambridge CB10 1SA, E-mail: barrell@sanger.ac.uk and nh@sanger.ac.uk  
 COMMENT Constructed at the Institute for Genomic Research (TIGR), Rockville, MD. Genomic DNA isolated from a cloned population of Trypanosoma brucei (TREU927/4 Gurat 10.1) was mechanically sheared to give a tight size distribution (4 Kb). The v + i method used for the library construction is described in detail in Smith, H. and Venter, J.C. (Making small insert libraries for whole genome shotgun sequencing projects. In Genome Sequencing: A Practical Approach, eds. M. Vaudin and B. Barrell, Oxford University Press, 1999).  
 Email: nelsayed@tigr.org  
 Details of T. brucei sequencing at the Sanger Centre are available at [http://www.sanger.ac.uk/Projects/T\\_brucei/](http://www.sanger.ac.uk/Projects/T_brucei/).

FEATURES  
 source  
 1. 49  
 /organism="Trypanosoma brucei"  
 /strain="TREU927"  
 /db\_xref="taxon:5691"  
 /clone="3d11"  
 13 a 19 c 9 g 8 t

BASE COUNT  
 ORIGIN

Query Match 0.8%; Score 14; DB 13; Length 49;  
 Best Local Similarity 100.0%; Pred. No. 7.3e+04;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1546 gctgctgcagatg 1559  
 |||||  
 Db 16 GCTGCTGCAGATG 3

RESULT 11  
 AI252059/c  
 LOCUS  
 DEFINITION QY39f04.x1 NCI-CGAP\_Ov31 Homo sapiens cDNA clone IMAGE:1983967 3' similar to gb:L21696\_cds1 PROTHYMOSIN ALPHA (HUMAN); contains PPR5 t3 MSRI repetitive element; , mRNA sequence.  
 ACCESSION AI252059  
 VERSION AI252059.1 GI:3848588  
 KEYWORDS EST.  
 SOURCE Homo sapiens.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 50)  
 AUTHORS NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP).

Tumor Gene Index  
 Unpublished (1997)  
 Contact: Robert Strausberg, Ph.D.  
 Email: cgaps-remail.nih.gov  
 unknown library type  
 Trace considered overall poor quality  
 Insert Length: 304 Std Error: 0.00  
 Seq primer: -40UP from Gibco  
 High quality sequence stop: 1.  
 Location/Qualifiers  
 1. 50  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone="IMAGE:1983967"  
 /clone\_lib="NCI\_CGAP\_Ov31"  
 /sex="female"  
 /tissue\_type="papillary serous carcinoma"  
 /lab\_host="DH10B"  
 /note="Organ: ovary; Vector: pAMP1; mRNA made from ovarian carcinoma, cDNA made by oligo-dT priming. Non-directionally cloned. Size-selected on agarose gel, average insert size 500 bp. Non-amplified library."  
 18 a 2 c 26 g 4 t

BASE COUNT  
 ORIGIN

Query Match 0.8%; Score 14; DB 10; Length 50;  
 Best Local Similarity 100.0%; Pred. No. 7.3e+04;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 919 cctcccacattct 932  
 |||||  
 Db 21 CCTCCCCACCTTCT 8

RESULT 12  
 AU104702  
 LOCUS  
 DEFINITION AU104702 50 bp mRNA EST 05-APR-2001  
 HRC06060, mRNA sequence.  
 ACCESSION AU104702  
 VERSION AU104702.1 GI:13554223  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 50)  
 AUTHORS Suzuki, Y., Tsunoda, T., Taira, H., Mizushima-Sugano, J., Sese, J., Hata, H., Ota, T., Isozaki, T., Tanaka, T., Nakamura, Y., Morishita, S., Okubo, K., Suyama, A. and Sugano, S.  
 TITLE Fine Structural analysis of transcription start sites of human mRNAs using full-length enriched and 5'-end enriched cDNA libraries  
 JOURNAL Unpublished (2001)  
 COMMENT Contact: Yutaka Suzuki  
 Department of Virology  
 Institute of Medical Science, University of Tokyo  
 4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan  
 Email: ysuzuki@ims.u-tokyo.ac.jp  
 Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Suyama, A. and Sugano, S. Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).  
 Location/Qualifiers  
 1. 50  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone="HRC06060"  
 /clone\_lib="Sugano Homo sapiens cDNA library"  
 4 a 23 c 17 g 6 t

BASE COUNT  
 ORIGIN

Query Match 0.8%; Score 14; DB 10; Length 50;

Best Local Similarity 100.0%; Pred. No. 7.3e+04;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1125 tccccagccagcc 1138  
|||||  
Db 32 TCCCAGCCAGGCC 45

RESULT 13  
LOCUS A1027323  
DEFINITION ow46a07.s1 Soares.parathyroid\_tumor\_NbHPA Homo sapiens cDNA clone IMAGE:1649844 3' similar to TR:Q15929 Q15929 DNA-BINDING PROTEIN ; mRNA sequence.  
ACCESSION A1027323  
VERSION A1027323  
KEYWORDS EST.  
SOURCE A1027323.1 GI:3244839  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1 (bases 1 to 19)  
AUTHORS NCI-CCAP http://www.ncbi.nlm.nih.gov/ncicgap.  
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index  
JOURNAL Unpublished (1997)  
COMMENT Contact: Robert Strausberg, Ph.D.  
Email: cgaabs-r@mail.nih.gov  
CDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima Bonaldo, Ph.D.  
CDNA Library Arrayed by: Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CCAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html

Trace considered overall poor quality  
Insert Length: 968 Std Error: 0.00  
Seq primer: -40m13 fwd. Et from Amersham

High quality sequence stop: 1.  
Location/Qualifiers

FEATURES  
source

1. .19  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:1649844"  
/clone\_lib="Soares.parathyroid\_tumor\_NbHPA"  
/tissue\_type="parathyroid tumor"  
/dev\_stage="adult"  
/lab\_host="DH10B (ampicillin resistant)"  
/note="Organ: parathyroid gland; Vector: pTTT3D (Pharmacia) with a modified polylinker; Site.1: Not I; Site.2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer  
[5'-TGTTACCACTCAAGTGGAGCGGCCGACCAATTTTTTTTTTTTTTTT TTTT-3']  
double-stranded cDNA was size selected, ligated to Eco RI adapters (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of a modified pTTT3 vector (Pharmacia). Library went through one round of normalization to a Cot = 5. Library constructed by Bento Soares and M. Fatima Bonaldo. RNA from sporadic parathyroid adenomas was kindly provided by Dr. Stephen Marx, National Institute of Diabetes and Digestive and Kidney Diseases, NIH."

BASE COUNT 6 a 7 c 6 g 0 t  
ORIGIN

Query Match 0.7%; Score 13; DB 10; Length 19;  
Best Local Similarity 100.0%; Pred. No. 2e+05;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 310 caccggcgagaag 322  
|||||

Db 4 CACGGCGGAGAAG 16

RESULT 14  
LOCUS AZ792979/c

DEFINITION AZ792979 Mouse 19 bp DNA GSS 16-FEB-2001  
clone UUGC2M0046G04 F, DNA sequence.

ACCESSION AZ792979  
VERSION AZ792979.1 GI:12937658  
KEYWORDS GSS.  
SOURCE house mouse.  
ORGANISM Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
REFERENCE 1 (bases 1 to 19)  
AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.  
TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

JOURNAL Unpublished (2000)

COMMENT Contact: Robert B. Weiss  
University of Utah Genome Center

Rm. 308, Biomedical Polymers Research Bldg.; 20 S. 2030 E., SLC, UT 84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00

Plate: 0046 row: G column: 04

Seq primer: CGTGTAAACGACGCGCCAGT

Class: plasmid ends

High quality sequence stop: 19.

Location/Qualifiers

1. .19  
/organism="Mus musculus"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC2M0046G04"  
/clone\_lib="Mouse 10kb plasmid UUGC1M library"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, TI-resistant, F-"  
/note="Vector: pWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA was hydronically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi14732114|gb|AF129072.1), a copy-number inducible derivative of plasmid RI. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 8 a 2 c 4 g 5 t  
ORIGIN

Query Match 0.7%; Score 13; DB 13; Length 19;  
Best Local Similarity 100.0%; Pred. No. 2e+05;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 615 tgccttcataa 627



DB	16	TGTCTTCCATAA 4
RESULT 15	AA959224/c	
LOCUS	AA959224	
DEFINITION	un10106.r1 Soares_mammary_gland_NbMMG Mus musculus cDNA clone IMAGE:134633 5' similar to SW:COX3_MOUSE P00416 CYTOCHROME C OXIDASE POLYPEPTIDE III ; mRNA sequence.	
ACCESSION	AA959224	
VERSION	AA959224.1	GI:3124417
KEYWORDS	EST.	
SOURCE	house mouse.	
ORGANISM	Mus musculus	
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Euthera; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 22)	
AUTHORS	Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T., Geisel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M., Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B., Theising, B., Wylie, T., Lennon, G., Soares, B., Willson, R. and Waterston, R.	
TITLE	The WashU-HMI Mouse EST Project	
JOURNAL	Unpublished (1996)	
COMMENT	Contact: Marra M/Mouse EST Project WashU-HMI Mouse EST Project Washington University School of MedicineP 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 Tel: 314 286 1800 Fax: 314 286 1810 Email: mouseest@wustl.edu This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information. MGI:695155	
FEATURES	source	
1..22	Location/Qualifiers	
/organism="Mus musculus"		
/strain="C57BL/6J"		
/db_xref="taxon:10090"		
/clone="IMAGE:134633"		
/clone_lib="Soares_mammary_gland_NbMMG"		
/sex="male"		
/tissue_type="mammary gland"		
/dev_stage="4 weeks"		
/lab_host="DH10B"		
/note="Organ: mammary gland; Vector: p773D-Pac (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5' TGTTACCAATCTGAATGGGAGCGCGCGAATGGTTTTTTTTTTTTTTTTTTTTTTT 3'] ; double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified p773 vector. RNA provided by Dr. Minoru Ko, Wayne State Univ. Library constructed and normalized by Bento Soares and M.Fatima Bonaldo."		
BASE COUNT	8 a 7 c 2 g 5 t	
ORIGIN		
Query Match	0.7%; Score 13; DB 10; Length 22;	
Best Local Similarity	100.0%; Pred. No. 2.1e+05;	
Matches	13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY	1215 tgggtgaattcct 1227	
DB	13 TGGTGAATTCCT 1	
RESULT 16	AZ830573	
LOCUS	AZ830573	
DEFINITION	2M0109G23R Mouse 10kb plasmid UUGCLM library Mus musculus genomic clone UUGC2M0109G23 R, DNA sequence.	
ACCESSION	AZ830573	
VERSION	AZ830573.1	GI:13000481
KEYWORDS	GSS.	
SOURCE	house mouse.	
ORGANISM	Mus musculus	
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Euthera; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 22)	
AUTHORS	Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.	
TITLE	Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts	
JOURNAL	Unpublished (2000)	
COMMENT	Contact: Robert B. Weiss University of Utah Genome Center Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA Tel: 801 585 5606 Fax: 801 585 7177 Email: ddunn@genetics.utah.edu Insert length: 10000 Std Error: 0.00 Plate: 0109 row: G column: 23 Seq primer: CACACAGAAACAGCTATGACC Class: plasmid ends High quality sequence stop: 22.	
FEATURES	source	
1..22	Location/Qualifiers	
/organism="Mus musculus"		
/strain="C57BL/6J"		
/db_xref="taxon:10090"		
/clone="UUGC2M0109G23"		
/clone_lib="Mouse 10kb plasmid UUGCLM library"		
/sex="Male"		
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"		
/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (gi14732114 gb AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."		
BASE COUNT	8 a 5 c 5 g 4 t	
ORIGIN		
Query Match	0.7%; Score 13; DB 13; Length 22;	
Best Local Similarity	100.0%; Pred. No. 2.1e+05;	
Matches	13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY	1263 acacatttgaga 1275	
DB	9 ACACATTTGAAGA 21	

RESULT 17

AZ499076 23 bp DNA GSS 05-OCT-2000  
 LOCUS 1M0336H08R Mouse 10kb plasmid UUGC1M library Mus musculus genomic  
 DEFINITION clone UUGC1M0336H08 R, DNA sequence.  
 ACCESSION AZ499076  
 VERSION AZ499076.1 GI:10677540  
 KEYWORDS GSS.  
 SOURCE house mouse.  
 ORGANISM Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 23)  
 REFERENCE Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,  
 AUTHORs Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly  
 ,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.  
 and Wright,D., Weiss,R.  
 TITLE Mouse whole genome scaffolding with paired end reads from 10kb  
 plasmid inserts  
 JOURNAL Unpublished (2000)  
 COMMENT Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0336 ROW: H column: 08  
 Seq primer: CACACAGGAACACGCTATGACC  
 Class: plasmid ends  
 High quality sequence stop: 23.  
 FEATURES  
 Location/Qualifiers  
 1..23  
 /organism="Mus musculus"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC1M0336H08"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /notes="Vector: PWD42nv; Purified genomic DNA from M.  
 musculus C57BL/6J (male) was obtained from the Jackson  
 Laboratory Mouse DNA Resource  
 (http://www.jax.org/resources/documents/dnares/). The DNA  
 was hydrodynamically sheared by repeated passage through a  
 0.005 inch orifice at constant velocity. The sheared DNA  
 was blunt end-repaired with T4 DNA polymerase and T4  
 polynucleotide kinase. Adaptor oligonucleotides were  
 ligated to the blunt ends in high molar excess. The  
 adaptor DNA was purified and size-selected for a 9.5 to  
 10.5 kb range using preparative agarose gel  
 electrophoresis. Vector DNA was prepared from a derivative  
 of PWD42 (gi14732114|gb|AF129072.1), a copy-number  
 inducible derivative of plasmid R1. The vector was ligated  
 with adaptors complementary to the insert adaptors and  
 purified. The sheared, adaptor mouse DNA was annealed to  
 adaptor vector DNA, and transformed into  
 chemically-competent E. coli XL10-Gold (Stratagene) cells  
 and selected for ampicillin resistance."

BASE COUNT 0 a 16 c 1 g 6 t  
 ORIGIN

Query Match 0.7%; Score 13; DB 13; Length 23;  
 Best Local Similarity 100.0%; Pred. No. 2.1e+05;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 913 cctcccccctccc 925  
 |||||

Db.

8 CCTCCCCCTCCCC 20

RESULT 18

AZ820462 24 bp DNA GSS 20-FEB-2001  
 LOCUS 2M0092H02R Mouse 10kb plasmid UUGC1M library Mus musculus genomic  
 DEFINITION clone UUGC2M0092H02 R, DNA sequence.  
 ACCESSION AZ820462  
 VERSION AZ820462.1 GI:12990286  
 KEYWORDS GSS.  
 SOURCE house mouse.  
 ORGANISM Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 24)  
 REFERENCE Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,  
 AUTHORs Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly  
 ,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.  
 and Wright,D., Weiss,R.  
 TITLE Mouse whole genome scaffolding with paired end reads from 10kb  
 plasmid inserts  
 JOURNAL Unpublished (2000)  
 COMMENT Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0092 row: H column: 02  
 Seq primer: CACACAGGAACACGCTATGACC  
 Class: plasmid ends  
 High quality sequence stop: 24.  
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 /organism="Mus musculus"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC2M0092H02"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /notes="Vector: PWD42nv; Purified genomic DNA from M.  
 musculus C57BL/6J (male) was obtained from the Jackson  
 Laboratory Mouse DNA Resource  
 (http://www.jax.org/resources/documents/dnares/). The DNA  
 was hydrodynamically sheared by repeated passage through a  
 0.005 inch orifice at constant velocity. The sheared DNA  
 was blunt end-repaired with T4 DNA polymerase and T4  
 polynucleotide kinase. Adaptor oligonucleotides were  
 ligated to the blunt ends in high molar excess. The  
 adaptor DNA was purified and size-selected for a 9.5 to  
 10.5 kb range using preparative agarose gel  
 electrophoresis. Vector DNA was prepared from a derivative  
 of PWD42 (gi14732114|gb|AF129072.1), a copy-number  
 inducible derivative of plasmid R1. The vector was ligated  
 with adaptors complementary to the insert adaptors and  
 purified. The sheared, adaptor mouse DNA was annealed to  
 adaptor vector DNA, and transformed into  
 chemically-competent E. coli XL10-Gold (Stratagene) cells  
 and selected for ampicillin resistance."

BASE COUNT 5 a 3 c 6 g 10 t  
 ORIGIN

Query Match 0.7%; Score 13; DB 13; Length 24;  
 Best Local Similarity 100.0%; Pred. No. 2.1e+05;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 67 gacatacatatc 79

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Db      23  GACATACATATAC 11
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RESULT 19
A2377014/c
LOCUS   A2377014      26 bp      DNA
DEFINITION
clone UUGCLM0131F08 F, DNA sequence.
ACCESSION
A2377014
VERSION
A2377014.1
KEYWORDS
GSS.
SOURCE
house mouse.
ORGANISM
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 26)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.
and Wright,D., Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0131 row: F column: 08
Seq primer: CGTTGTAAACGACGCCAGT
Class: plasmid ends
High quality sequence stop: 26.
FEATURES
Location/Qualifiers
1..26
/organism="Mus musculus"
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/sex="Male"
/lab_host="E. Coli strain XL10-Gold, TI-resistant, F-"
/notes="Vector: PWD42nv; Purified genomic DNA from M.
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (gi14732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to
adapted vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."
4 a 7 c 6 g 9 t

BASE COUNT
ORIGIN

Query Match 0.7%; Score 13; DB 13; Length 26;
Best Local Similarity 100.0%; Pred. No. 2.1e+05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db      21  GACAGGTGATCCC 9
|||||
RESULT 20
A2621737/c
LOCUS   A2621737      27 bp      DNA
DEFINITION
clone UUGCLM0455F15 F, DNA sequence.
ACCESSION
A2621737
VERSION
A2621737.1
KEYWORDS
GSS.
SOURCE
house mouse.
ORGANISM
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 27)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.
and Wright,D., Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0455 row: F column: 15
Seq primer: CGTTGTAAACGACGCCAGT
Class: plasmid ends
High quality sequence stop: 27.
FEATURES
Location/Qualifiers
1..27
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/clone="UUGCLM0455F15"
/clone_lib="Mouse 10kb plasmid UUGCLM library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, TI-resistant, F-"
/notes="Vector: PWD42nv; Purified genomic DNA from M.
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
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10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (gi14732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to
adapted vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."
6 a 3 c 10 g 8 t

BASE COUNT
ORIGIN

Query Match 0.7%; Score 13; DB 13; Length 27;
Best Local Similarity 100.0%; Pred. No. 2.1e+05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1513 caaccctagatt 1525  
 Db 27 CAACCTGAGATT 15

RESULT 21  
 AZ783172 30 bp DNA GSS 16-FEB-2001  
 LOCUS 2M0024F08 Mouse 10kb plasmid UUGC1M library Mus musculus genomic  
 DEFINITION clone UUGC2M0024F08 R, DNA sequence.  
 AZ783172  
 ACCESSION AZ783172  
 VERSION AZ783172.1 GI:12917634  
 KEYWORDS GSS.  
 SOURCE house mouse.  
 ORGANISM Mus musculus

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 30)  
 Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamill,C.,  
 Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly  
 M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.  
 and Wright,D., Weiss,R.  
 TITLE Mouse whole genome scaffolding with paired end reads from 10kb  
 plasmid inserts  
 JOURNAL Unpublished (2000)  
 COMMENT Contact: Robert B. Weiss  
 University of Utah  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0024 row: F column: 08  
 Seq primer: CACACGGAACAGCTATGACC  
 Class: plasmid ends  
 High quality sequence stop: 30.

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 /strain="C57BL/6J"  
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 /clone="UUGC2M0024F08"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, Tl-resistant, F-"  
 /note="Vector: PWD42nv; Purified genomic DNA from M.  
 musculus C57BL/6J (male) was obtained from the Jackson  
 Laboratory Mouse DNA Resource  
 (http://www.jax.org/resources/documents/dnares/). The DNA  
 was hydrodynamically sheared by repeated passage through a  
 0.005 inch orifice at constant velocity. The sheared DNA  
 was blunt end-repaired with T4 DNA polymerase and T4  
 polynucleotide kinase. Adaptor oligonucleotides were  
 ligated to the blunt ends in high molar excess. The  
 adaptor DNA was purified and size-selected for a 9.5 to  
 10.5 kb range using preparative agarose gel  
 electrophoresis. Vector DNA was prepared from a derivative  
 of PWD42 (gi14732114/gb|AF129072.1), a copy-number  
 inducible derivative of plasmid R1. The vector was ligated  
 with adaptors complementary to the insert adaptors and  
 purified. The sheared, adaptor mouse DNA was annealed to  
 adaptor vector DNA, and transformed into  
 chemically-competent E. coli XL10-Gold (Stratagene) cells  
 and selected for ampicillin resistance."

BASE COUNT  
 ORIGIN  
 0 a 27 c 0 g 3 t

Query Match 0.7%; Score 13; DB 13; Length 30;  
 Best Local Similarity 100.0%; Pred. No. 2.1e+05;

Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 913 cctccccctcccc 925  
 Db 18 CTTCCCTCCCTCCC 30

RESULT 22  
 AA865448 31 bp mRNA EST 29-APR-1998  
 LOCUS oh50a06.s1 NCI\_CGAP\_GC4 Homo sapiens cDNA clone IMAGE:1470034 3'  
 DEFINITION similar to SW.ROG\_HUMAN P38159 HETEROGENEOUS NUCLEAR  
 RIBONUCLEOPROTEIN G ; mRNA sequence.  
 AA865448  
 ACCESSION AA865448  
 VERSION AA865448.1 GI:2957724  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
 1 (bases 1 to 31)  
 NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
 AUTHORS National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
 Tumor Gene Index  
 TITLE Unpublished (1997)  
 JOURNAL Contact: Robert Strausberg, Ph.D.  
 COMMENT Email: cgapbs-r@mail.nih.gov  
 Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael  
 Emmert-Buck, M.D., Ph.D.  
 cDNA Library Preparation: M. Bento Soares, Ph.D.  
 DNA Sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CGAP clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LLNL at:  
 www-bio.llnl.gov/bbrp/image/image.html

Trace considered overall poor quality  
 Insert Length: 753 Std Error: 0.00  
 Seq primer: -40ml3 fwd. ET from Amersham  
 High quality sequence stop: 1.  
 Location/Qualifiers  
 1. 31  
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 /clone\_lib="NCI\_CGAP\_GC4"  
 /tissue\_type="pooled germ cell tumors"  
 /lab\_host="DH10B"  
 /note="Vector: pT7T3D-Pac (Pharmacia) with a modified  
 polylinker; 1st strand cDNA was prepared from 3 pooled  
 germ cell tumors, and was then primed with a Not I -  
 oligo(dT) primer. Double-stranded cDNA was ligated to Eco  
 RI adaptors (Pharmacia), digested with Not I and cloned  
 into the Not I and Eco RI sites of the modified pT7T3  
 vector. Library is normalized. Library was constructed by  
 Bento Soares and M. Fatima Bonaldo."

BASE COUNT  
 ORIGIN  
 6 a 5 c 13 g 7 t

Query Match 0.7%; Score 13; DB 10; Length 31;  
 Best Local Similarity 100.0%; Pred. No. 2.1e+05;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1447 gtctcggtctcgag 1459  
 Db 14 GTCTCGGTCTCGAG 26

RESULT 23  
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 LOCUS AA867755  
 DEFINITION vx16b08.r1 Soares\_thymus\_2NBMT Mus musculus cDNA clone

IMAGE:1264599 5' similar to TR:035394 035394 PRENYLATED RAB  
ACCEPTOR 1. ;, mRNA sequence.  
ACCESSION AA867755  
VERSION AA867755.1 GI:2963200  
KEYWORDS EST.  
SOURCE house mouse.  
ORGANISM Mus musculus  
REFERENCE 1 (bases 1 to 31)  
AUTHORS Mammalia; Chordata; Craniata; Vertebrata; Euteleostomi;  
Islam, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C.,  
M., Rose, M., Rose, R., Mahmoud, M., Meenen, E., Pedersen, T., Reilly  
and Wright, D., Weiss, R., Stokes, R., Tingey, A., von Niederhausern, A.  
Mouse whole genome scaffolding with paired end reads from 10kb  
plasmid inserts  
JOURNAL Unpublished (2000)  
COMMENT Contact: Robert B. Weiss  
University of Utah Genome Center  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0012 row: H column: 13  
Seq primer: CGTGTAAACGAGGCCAGT  
Class: plasmid ends  
High quality sequence stop: 31.  
Location/Qualifiers  
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/db\_xref="taxon:10090"  
/clone="UUGC2M0012H13"  
/clone\_lib="Mouse 10kb plasmid UUGCLM library"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
/note="Vector: PWD42nv; Purified genomic DNA from M.  
musculus C57BL/6J (male) was obtained from the Jackson  
Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA  
was hydrodynamically sheared by repeated passage through a  
0.005 inch orifice at constant velocity. The sheared DNA  
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ligated to the blunt ends in high molar excess. The  
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electrophoresis. Vector DNA was prepared from a derivative  
of PWD42 (gi14732114|gb|AF129072.1), a copy-number  
inducible derivative of plasmid R1. The vector was ligated  
with adaptors complementary to the insert adaptors and  
purified. The sheared, adapted mouse DNA was annealed to  
adapted vector DNA, and transformed into  
chemically-competent E. coli XL10-Gold (Stratagene) cells  
and selected for ampicillin resistance."

BASE COUNT 6 a 13 c 9 g 3 t  
ORIGIN  
Query Match 0.7%; Score 13; DB 10; Length 31;  
Best Local Similarity 100.0%; Pred. No. 2.1e+05;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 22 gaccctgctgcc 34  
|||||  
Db 16 GACCCTGCTGCC 28  
RESULT 24  
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LOCUS  
DEFINITION 2M0012H13F Mouse 10kb plasmid UUGCLM library Mus musculus genomic  
clone UUGC2M0012H13 F, DNA sequence.  
ACCESSION AZ877749  
VERSION AZ877749.1 GI:12906501  
KEYWORDS GSS.

SOURCE house mouse.  
ORGANISM Mus musculus  
REFERENCE 1 (bases 1 to 31)  
AUTHORS Mammalia; Chordata; Craniata; Vertebrata; Euteleostomi;  
Islam, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C.,  
M., Rose, M., Rose, R., Mahmoud, M., Meenen, E., Pedersen, T., Reilly  
and Wright, D., Weiss, R., Stokes, R., Tingey, A., von Niederhausern, A.  
Mouse whole genome scaffolding with paired end reads from 10kb  
plasmid inserts  
JOURNAL Unpublished (2000)  
COMMENT Contact: Robert B. Weiss  
University of Utah Genome Center  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0012 row: H column: 13  
Seq primer: CGTGTAAACGAGGCCAGT  
Class: plasmid ends  
High quality sequence stop: 31.  
Location/Qualifiers  
1. 31  
/organism="Mus musculus"  
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/db\_xref="taxon:10090"  
/clone="UUGC2M0012H13"  
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/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
/note="Vector: PWD42nv; Purified genomic DNA from M.  
musculus C57BL/6J (male) was obtained from the Jackson  
Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA  
was hydrodynamically sheared by repeated passage through a  
0.005 inch orifice at constant velocity. The sheared DNA  
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polynucleotide kinase. Adaptor oligonucleotides were  
ligated to the blunt ends in high molar excess. The  
adapted DNA was purified and size-selected for a 9.5 to  
10.5 kb range using preparative agarose gel  
electrophoresis. Vector DNA was prepared from a derivative  
of PWD42 (gi14732114|gb|AF129072.1), a copy-number  
inducible derivative of plasmid R1. The vector was ligated  
with adaptors complementary to the insert adaptors and  
purified. The sheared, adapted mouse DNA was annealed to  
adapted vector DNA, and transformed into  
chemically-competent E. coli XL10-Gold (Stratagene) cells  
and selected for ampicillin resistance."

BASE COUNT 5 a 7 c 12 g 7 t  
ORIGIN  
Query Match 0.7%; Score 13; DB 13; Length 31;  
Best Local Similarity 100.0%; Pred. No. 2.1e+05;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 373 cagccactgtgcc 385  
|||||  
Db 26 CAGCCACTGTGCC 14  
RESULT 25  
AZ938547/c 31 bp DNA GSS 26-APR-2001  
LOCUS  
DEFINITION 2M0197J10F Mouse 10kb plasmid UUGC2M library Mus musculus genomic  
clone UUGC2M0197J10 F, DNA sequence.  
ACCESSION AZ938547  
VERSION AZ938547.1 GI:13798394

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KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
FEATURES
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1. 31
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone_lib="Mouse 10kb plasmid UUGC2M library"
/lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
/notes="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (female) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi14732114|gb|AF129072.1), a copy-number inducible derivative of plasmid RL. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
BASE COUNT      5 a      2 c      11 g      13 t
ORIGIN

Query Match      0.7%  Score 13;  DB 13;  Length 31;
Best Local Similarity 100.0%; Pred. No. 2.1e+05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1513 caaccctgagatt 1525
|||||
DB 25 CAACCTGAGATT 13

RESULT 26
LOCUS      AZ618214      32 bp      DNA      GSS      13-DEC-2000
DEFINITION 1M0449016R Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0449016 R, DNA sequence.
ACCESSION  AZ618214

KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
FEATURES
source
1. 32
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
/notes="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi14732114|gb|AF129072.1), a copy-number inducible derivative of plasmid RL. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
BASE COUNT      5 a      9 c      10 g      8 t
ORIGIN

Query Match      0.7%  Score 13;  DB 13;  Length 32;
Best Local Similarity 100.0%; Pred. No. 2.2e+05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1551 tgcagatggactt 1563
|||||
DB 5 TGCAGATGGACTT 17

RESULT 27
LOCUS      AA920912      34 bp      mRNA      EST      20-APR-1998
DEFINITION vy84f09.rl Stratagene mouse macrophage (#937306) Mus musculus cdna clone IMAGE:1312937 5' similar to SW:CB45_MOUSE Q61112 45 RD

```

and Wright,D.,Weiss,R.  
Mouse whole genome scaffolding with paired end reads from 10kb  
plasmid inserts  
Unpublished (2000)  
Contact: Robert B. Weiss  
University of Utah Genome Center  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0283 row: J column: 19  
Seq primer: CGTTGTAAACGACGGCCAGT  
Class: plasmid ends  
High quality sequence stop: 35.  
Location/Qualifiers  
1. .35  
/organism="Mus musculus"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone\_lib="Mouse 10kb plasmid UUGC1M library"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, TI-resistant, F-"  
/note="Vector: PWD42nv; Purified genomic DNA from M.  
musculus C57BL/6J (male) was obtained from the Jackson  
Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA  
was hydrodynamically sheared by repeated passage through a  
0.005 inch orifice at constant velocity. The sheared DNA  
was blunt end-repaired with T4 DNA polymerase and T4  
polynucleotide kinase. Adaptor oligonucleotides were  
ligated to the blunt ends in high molar excess. The  
adaptor DNA was purified and size-selected for a 9.5 to  
10.5 kb range using preparative agarose gel  
electrophoresis. Vector DNA was prepared from a derivative  
of PWD42 (g14732114|gb|AF129072.1), a copy-number  
inducible derivative of plasmid R1. The vector was ligated  
with adaptors complementary to the insert adaptors and  
purified. The sheared, adaptor mouse DNA was annealed to  
adaptor vector DNA, and transformed into  
chemically-competent E. coli XL10-Gold (Stratagene) cells  
and selected for ampicillin resistance."

BASE COUNT 0 a 24 c 2 g 9 t  
ORIGIN

Query Match 0.7%; Score 13; DB 13; Length 35;  
Best Local Similarity 100.0%; Pred. No. 2.2e+05;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 913 cctcccccctcccc 925  
|||||  
Db 23 CCTCCCTCCCTCCC 35

RESULT 29  
LOCUS AZ825411 36 bp DNA 20-FEB-2001  
DEFINITION 2M0100A09R Mouse 10kb plasmid UUGC1M library Mus musculus genomic  
clone UUGC2M0100A09 R, DNA sequence.  
ACCESSION AZ825411  
VERSION AZ825411.1 GI:12995319  
KEYWORDS GSS.  
SOURCE house mouse.  
ORGANISM Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
1 (bases 1 to 36)  
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,  
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly

and Wright,D.,Weiss,R.  
Mouse whole genome scaffolding with paired end reads from 10kb  
plasmid inserts  
Unpublished (2000)  
Contact: Robert B. Weiss  
University of Utah Genome Center  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0283 row: J column: 19  
Seq primer: CGTTGTAAACGACGGCCAGT  
Class: plasmid ends  
High quality sequence stop: 35.  
Location/Qualifiers  
1. .35  
/organism="Mus musculus"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone\_lib="Mouse 10kb plasmid UUGC1M library"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, TI-resistant, F-"  
/note="Vector: PWD42nv; Purified genomic DNA from M.  
musculus C57BL/6J (male) was obtained from the Jackson  
Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA  
was hydrodynamically sheared by repeated passage through a  
0.005 inch orifice at constant velocity. The sheared DNA  
was blunt end-repaired with T4 DNA polymerase and T4  
polynucleotide kinase. Adaptor oligonucleotides were  
ligated to the blunt ends in high molar excess. The  
adaptor DNA was purified and size-selected for a 9.5 to  
10.5 kb range using preparative agarose gel  
electrophoresis. Vector DNA was prepared from a derivative  
of PWD42 (g14732114|gb|AF129072.1), a copy-number  
inducible derivative of plasmid R1. The vector was ligated  
with adaptors complementary to the insert adaptors and  
purified. The sheared, adaptor mouse DNA was annealed to  
adaptor vector DNA, and transformed into  
chemically-competent E. coli XL10-Gold (Stratagene) cells  
and selected for ampicillin resistance."

BASE COUNT 0 a 24 c 2 g 9 t  
ORIGIN

Query Match 0.7%; Score 13; DB 13; Length 35;  
Best Local Similarity 100.0%; Pred. No. 2.2e+05;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 913 cctcccccctcccc 925  
|||||  
Db 23 CCTCCCTCCCTCCC 35

RESULT 29  
LOCUS AZ825411/c 36 bp DNA 04-OCT-2000  
DEFINITION 1M0283J19F Mouse 10kb plasmid UUGC1M library Mus musculus genomic  
clone UUGC1M0283J19 F, DNA sequence.  
ACCESSION AZ469734  
VERSION AZ469734.1 GI:10627859  
KEYWORDS GSS.  
SOURCE house mouse.  
ORGANISM Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
1 (bases 1 to 35)  
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,  
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly  
M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausen,A.

us-09-925-139-3.rst

M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.  
 Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
 Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0100 row: A column: 09  
 Seq primer: CACACAGGAACAGCTATGACC  
 Class: plasmid ends  
 High quality sequence stop: 36.

## FEATURES

source

1. 36  
 /organism="Mus musculus"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC2M0100A09"  
 /clone.lib="Mouse 10kb plasmid UUGC1M library"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /note="vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource  
 (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (g114732114/gb1AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## BASE COUNT

ORIGIN

11 a 7 c 7 g 11 t

Query Match 0.78; Score 13; DB 13; Length 36;  
 Best Local Similarity 100.0%; Pred. No. 2.2e+05;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1167 ccaagatctcctg 1179

Db 36 CCACAGATCTCCTG 24

## RESULT 30

AA978054

LOCUS

AA978054 37 bp mRNA EST 23-JUL-1998  
 Oq55801.s1 NCI-CGAP\_Kid5 Homo sapiens CDNA clone IMAGE:1590289 3'  
 similar to SW:KAD2\_HUMAN P54819 ADENYLATE KINASE ISOENZYME 2,  
 MITOCHONDRIAL ; mRNA sequence.

ACCESSION

AA978054

VERSION

AA978054.1

KEYWORDS

EST.

SOURCE

human.

ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE

1 (bases 1 to 37)

## AUTHORS

TITLE

JOURNAL

COMMENT

NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
 Tumor Gene Index  
 Unpublished (1997)  
 Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs@email.nih.gov  
 Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D.  
 CDNA Library Preparation: M. Bento Soares, Ph.D.  
 CDNA Library Arrayed by: Greg Lennon, Ph.D.  
 DNA Sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:  
[www-bio.llnl.gov/bbrp/image/image.html](http://www-bio.llnl.gov/bbrp/image/image.html)

## FEATURES

source

1. 37  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone="IMAGE:1590289"  
 /clone.lib="NCI-CGAP\_Kid5"  
 /tissue\_type="2 pooled tumors (clear cell type)"  
 /lab\_host="DH10B"

Trace considered overall poor quality  
 Insert Length: 419 Std Error: 0.00  
 Seq primer: -40ml3 fwd. ET from Amersham  
 High quality sequence stop: 1.

Location/Qualifiers

7 a 12 c 9 g 9 t

BASE COUNT

ORIGIN

Query Match 0.78; Score 13; DB 10; Length 37;  
 Best Local Similarity 100.0%; Pred. No. 2.2e+05;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 659 cctgggtggatca 671

Db 6 CCTGGGTGGATCA 18

RESULT 31

AZ663277

LOCUS

DEFINITION

1M0542015R Mouse 10kb plasmid UUGC1M library Mus musculus genomic

clone UUGC1M0542015 R, DNA sequence.

ACCESSION

AZ663277

VERSION

AZ663277.1

KEYWORDS

GSS.

SOURCE

house mouse.

ORGANISM

Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE

1 (bases 1 to 39)

AUTHORS

Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C.,

Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly

, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.

and Wright, D., Weiss, R.

Mouse whole genome scaffolding with paired end reads from 10kb

plasmid inserts

Unpublished (2000)

CONTACT: Robert B. Weiss

University of Utah Genome Center

University of Utah

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT



84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0542 row: 0 column: 15  
 Seq primer: CACACAGGAACACGATGACC  
 Class: plasmid ends  
 High quality sequence stop: 39.

# FEATURES

Location/Qualifiers  
 1. .39  
 /organism="Mus musculus"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC1M0542015"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (g114732114|g114732114|g114732114), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT  
 ORIGIN

5 a

7 c

7 g

20 t

Query Match 0.7%; Score 13; DB 13; Length 39;  
 Best Local Similarity 100.0%; Pred. No. 2.2e+05;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 43 ctcattgtccgtg 55  
 |||||  
 Db 10 CTCATGTCCTG 22

RESULT 32  
 LOCUS

AZ781715

39 bp

DNA

GSS

16-FEB-2001

2M0021F16F Mouse 10kb plasmid UUGC1M library Mus musculus genomic

clone UUGC2M0021F16 F, DNA sequence.

AZ781715

AZ781715.1 GI:12914686

GSS.

house mouse.

Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

1 (bases 1 to 39)

Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,

Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly

,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.

and Wright,D., Weiss,R.

Mouse whole genome scaffolding with paired end reads from 10kb

plasmid inserts

Unpublished (2000)

Contact: Robert B. Weiss

University of Utah

University of Utah

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT  
 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0021 row: F column: 15  
 Seq primer: CGTGTAAACACGACGCCAGT  
 Class: plasmid ends  
 High quality sequence stop: 39.

# FEATURES

Location/Qualifiers  
 1. .39  
 /organism="Mus musculus"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC2M0021F16"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (g114732114|g114732114|g114732114), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

12 a

3 c

17 g

7 t

Query Match 0.7%; Score 13; DB 13; Length 39;  
 Best Local Similarity 100.0%; Pred. No. 2.2e+05;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 147 tctgacctggc 159  
 |||||  
 Db 26 TCCTGACCTGGC 14

RESULT 33  
 LOCUS

AZ825536/c

39 bp

DNA

GSS

20-FEB-2001

2M0100J14R Mouse 10kb plasmid UUGC1M library Mus musculus genomic

clone UUGC2M0100J14 R, DNA sequence.

AZ825536

AZ825536.1 GI:12995444

GSS.

house mouse.

Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

1 (bases 1 to 39)

Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,

Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly

,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.

and Wright,D., Weiss,R.

Mouse whole genome scaffolding with paired end reads from 10kb

plasmid inserts

Unpublished (2000)

Contact: Robert B. Weiss

University of Utah

University of Utah

University of Utah  
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84112, USA  
Tel.: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0100 row: J column: 14  
Seq primer: CACACAGGACACACTATGACC  
Class: plasmid ends  
High quality sequence stop: 39.

#### FEATURES

source

Location/Qualifiers  
1. .39  
/organism="Mus musculus"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC2M0100014"  
/clone\_lib="Mouse 10kb plasmid UUGC1M library"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, TI-resistant, F-"  
/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (g14732114[gbl/AF129072.1]), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 7 a 3 c 21 g 8 t  
ORIGIN

Query Match 0.7%; Score 13; DB 13; Length 39;  
Best Local Similarity 100.0%; Pred. No. 2.2e+05;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 917 cccctcccccacct 929  
|||||  
Db 26 CCCCTCCCACCT 14

#### RESULT 34

AA680336

LOCUS

DEFINITION ac83e09.s1 Stratagene lung (#937210) Homo sapiens CDNA clone IMAGE:869224 3', similar to TR:G836930 G836930 MELANOMA ANTIGEN P15.  
; mRNA sequence.

ACCESSION AA680336

VERSION AA680336.1

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

REFERENCE Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;

AUTHORS Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 40)

Hillier, L., Allen, M., Bowles, L., Dubucque, T., Geisel, G., Jost, S.,

Krizman, D., Kucaba, T., Lacy, M., Le, N., Lennon, G., Marra, M., Martin

, J., Moore, B., Schellenberg, K., Steptoe, M., Tan, F., Theising, B.,

White, Y., Wylie, T., Waterston, R., and Wilson, R.

WashU-NCI human EST Project

Unpublished (1997)

CONTACT: Wilson RK

Washington University School of Medicine  
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
Tel: 314 286 1800  
Fax: 314 286 1810  
Email: est@watson.wustl.edu

This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.  
Trace considered overall poor quality  
Possible reversed clone: similarity on wrong strand  
Seq primer: -40ml3 fwd. Et from Amersham  
High quality sequence stop: 1.

#### FEATURES

source

Location/Qualifiers  
1. .40  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:869224"  
/clone\_lib="Stratagene lung (#937210)"  
/sex="male"  
/dev\_stage="72 years"  
/lab\_host="SOLR cells (kanamycin resistant)"  
/note="organ: lung; Vector: pBluescript SK-; Site\_1: EcoRI  
; Site\_2: XhoI; Cloned unidirectionally. Primer: Oligo  
dr. normal lung. Average insert size: 1.0 kb; Uni-ZAP XR  
Vector; -5' adaptor sequence: 5' GAATTCGACGAG 3' -3'  
adaptor sequence: 5' CTCGAGTTTTTTTTTTTTTTT 3"

BASE COUNT 5 a 16 c 9 g 10 t  
ORIGIN

Query Match 0.7%; Score 13; DB 10; Length 40;  
Best Local Similarity 100.0%; Pred. No. 2.2e+05;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1686 cttctccacgtg 1698

Db 20 CTCCTCCACGCTG 32

#### RESULT 35

AI001093

LOCUS

DEFINITION AI001093 40 bp mRNA EST 05-JUN-1998  
OS94c01.s1 NCI-CGAP\_GC3 Homo sapiens cDNA clone IMAGE:1612992 3',  
similar to SW:TISD\_HUMAN P47974 TIS1LD PROTEIN,, mRNA sequence.

ACCESSION AI001093

VERSION AI001093.1

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

REFERENCE Eukaryota; Chordata; Chordata; Craniata; Vertebrata; Euteleostomi;

AUTHORS Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 40)

NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.

National Cancer Institute, Cancer Genome Anatomy Project (CGAP),

Tumor Gene Index

Unpublished (1997)

CONTACT: Robert Strausberg, Ph.D.

Email: cgapbs-r@mail.nih.gov

Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael

Emmert-Buck, M.D., Ph.D.

CDNA Library Prepared by: M. Bento Soares, Ph.D.

DNA Sequencing by: Greg Lennon, Ph.D.

Clone distribution: Washington University Genome Sequencing Center

found through the I.M.A.G.E. Consortium/LLNL at:

www.bio.llnl.gov/bbrp/image/image.html

Trace considered overall poor quality

Seq primer: -40ml3 fwd. Et from Amersham

High quality sequence stop: 1.

Location/Qualifiers

1. .40

/organism="Homo sapiens"

/db\_xref="taxon:9606"

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/clone="IMAGE:1612992"
/clone_lib="NCI_CGAP_GC3"
/tissue_type="pooled germ cell tumors"
/lab_host="DH10B"
/note="Vector: pT73D-Pac (Pharmacia) with a modified
polylinker; 1st strand cDNA was prepared from 3 pooled
germ cell tumors, and was then primed with a Not I -
oligo(dT) primer. Double-stranded cDNA was ligated to Eco
RI adaptors (Pharmacia), digested with Not I and cloned
into the Not I and Eco RI sites of the modified pT73
vector. Library is not normalized. Library was
constructed by Bento Soares and M. Fatima Bonaldo."
BASE COUNT      4 a 13 c 20 g 3 t
ORIGIN

Query Match      0.7%; Score 13; DB 10; Length 40;
Best Local Similarity 100.0%; Pred. No. 2.2e+05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 55 gggggctggcgcg 67
|||||
Db 4 GGGGCTGGCGG 16

RESULT 36
BE383987/c
LOCUS      42 bp mRNA EST 21-JUL-2000
DEFINITION 601273364F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614462 5',
mRNA sequence.
ACCESSION BE383987
VERSION BE383987.1 GI:9329352
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 42)
AUTHORS NIH-MGC http://mgc.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC/DCTD/DTF
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone Distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov
Plate: L1CM276 row: p column: 15
High quality sequence start: 27
High quality sequence stop: 42.
Location/Qualifiers
1..42
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:3614462"
/clone_lib="NIH_MGC_20"
/tissue_type="melanotic melanoma"
/lab_host="DH10B (phage-resistant)"
/note="Organ: skin; Vector: pOTB7; Site_1: XhoI; Site_2:
EcoRI; cDNA made by oligo-dT priming. Directionally
cloned into EcoRI/XhoI sites using the following 5'
adaptor: GGCACGAG(G). Size-selected >500bp for average
insert size 1.8kb. Library constructed by Ling Hong in
the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies)."
BASE COUNT      9 a 5 c 17 g 11 t
ORIGIN

Query Match      0.7%; Score 13; DB 10; Length 42;
Best Local Similarity 100.0%; Pred. No. 2.2e+05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Best Local Similarity 100.0%; Pred. No. 2.2e+05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 852 cagcctctctacct 864
|||||
Db 20 CAGCCTCTCTACCT 8

RESULT 37
AA922988
LOCUS      44 bp mRNA EST 21-APR-1998
DEFINITION OK77f09.s1 NCI_CGAP_GC4 Homo sapiens cDNA clone IMAGE:1520009 3',
similar to gb:S41211 HOMEBOX PROTEIN HOX-A10 (HUMAN);, mRNA
sequence.
ACCESSION AA922988
VERSION AA922988.1 GI:3070297
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 44)
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael
Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone Distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html

Trace considered overall poor quality
Seq primer: -40ml3 fwd. ET from Amersham
High quality sequence stop: 1.
Location/Qualifiers
1..44
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1520009"
/clone_lib="NCI_CGAP_GC4"
/tissue_type="pooled germ cell tumors"
/lab_host="DH10B"
/note="Vector: pT73D-Pac (Pharmacia) with a modified
polylinker; 1st strand cDNA was prepared from 3 pooled
germ cell tumors, and was then primed with a Not I -
oligo(dT) primer. Double-stranded cDNA was ligated to Eco
RI adaptors (Pharmacia), digested with Not I and cloned
into the Not I and Eco RI sites of the modified pT73
vector. Library is normalized. Library was constructed by
Bento Soares and M. Fatima Bonaldo."
BASE COUNT      7 a 8 c 15 g 14 t
ORIGIN

Query Match      0.7%; Score 13; DB 10; Length 44;
Best Local Similarity 100.0%; Pred. No. 2.2e+05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1541 ttctgctgctctgc 1553
|||||
Db 26 TTCTGCTGCTGCTGC 38

RESULT 38
T48887
LOCUS      44 bp mRNA EST 06-FEB-1995
DEFINITION YB07a05.r1 Stratagene placenta (#937225) Homo sapiens cDNA clone

```

IMAGE:70448 5' similar to gb:U14088 EOSINOPHIL GRANULE  
MAJOR BASIC PROTEIN PRECURSOR (HUMAN), mRNA sequence.

ACCESSION  
VERSION  
KEYWORDS  
SOURCE  
ORGANISM

T48887  
1 GI:650747  
human.

REFERENCE

AUTHORS

Homo sapiens  
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
1 (bases 1 to 44)  
Hillier, L., Lennon, G., Becker, M., Bonaldo, M.F., Chiapelli, B.,  
Chisoe, S., Dietrich, N., DuBuque, T., Ravello, A., Gish, W., Hawkins,  
M., Hultman, M., Kucaba, T., Lacy, M., Le, M., Le, N., Mardis, E., Moore,  
B., Morris, M., Parsons, J., Prange, C., Rifkin, L., Rohlfing, T.,  
Schellenberg, K., Soares, M.B., Tan, F., Thierry-Mieg, J., Trevaskis, E.,  
Underwood, K., Wohlmann, P., Waterston, R., Wilson, R. and Marra, M.  
Generation and analysis of 280,000 human expressed sequence tags  
Genome Res. 6 (9), 807-828 (1996)  
97044478

TITLE  
JOURNAL  
MEDLINE

COMMENT

Contact: Wilson RK  
Washington University School of Medicine  
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
Tel: 314 286 1800  
Fax: 314 286 1810  
Email: est@watson.wustl.edu  
High quality sequence starts: 1  
High quality sequence stops: 1  
Source: IMAGE Consortium, LLNL  
This clone is available royalty-free through LLNL; contact the  
IMAGE Consortium (info@image.llnl.gov) for further information.  
Trace considered overall poor quality  
Seq primer: M13RP1  
High quality sequence stop: 1.

FEATURES  
Source

1. .44  
Location/Qualifiers  
/organism="Homo sapiens"  
/db\_xref="GDB:491345"  
/db\_xref="taxon:9606"  
/clone="IMAGE:70448"  
/clone\_lib="Stratagene placenta (#937225)"  
/sex="male"  
/lab\_host="SOLR cells (kanamycin resistant)"  
/note="Organ: placenta; Vector: pBluescript SK-; Site: 1:  
EcoRI; Site 2: XhoI; Cloned unidirectionally. Primer:  
Oligo 48. Caucasian. Average insert size: 1.2 kb; Uni-ZAP  
XR Vector; -5' adaptor sequence: 5' GAATTCGGCAG 3' -3',  
adaptor sequence: 5' CTCGAGTTTTTTTTTTT 3'."  
12 a 8 c 14 g 9 t 1 others

BASE COUNT  
ORIGIN

Query Match

Best Local Similarity 0.7%; Score 13; DB 11; Length 44;

Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1427 gtgggcacccctg 1439

Db 30 GTGGGCATCCCTG 42

RESULT 39  
AZ498888/c

LOCUS

DEFINITION  
IM033621F Mouse 10kb plasmid UUGCLM library Mus musculus genomic  
clone UUGCLM033621 F, DNA sequence.

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

1 (bases 1 to 44)  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

AUTHORS

Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,  
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly,  
M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausen, A.,  
and Wright, D., Weiss, R.  
Mouse whole genome scaffolding with paired end reads from 10kb  
plasmid inserts  
Unpublished (2000)

TITLE

JOURNAL

COMMENT

Contact: Robert B. Weiss  
University of Utah Genome Center  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00

Plate: 0336 row: E column: 21

Seq primer: CGTTGTAACGACGCCAGT

Class: plasmid ends

High quality sequence stop: 44.

Location/Qualifiers

1. .44  
/organism="Mus musculus"

/strain="C57BL/6J"

/db\_xref="taxon:10090"

/clone="UUGCLM033621"

/clone\_lib="Mouse 10kb plasmid UUGCLM library"

/sex="Male"

/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"

/note="Vector: PWD42mv; Purified genomic DNA from M.  
musculus C57BL/6J (male) was obtained from the Jackson  
Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA  
was hydrodynamically sheared by repeated passage through a  
0.005 inch orifice at constant velocity. The sheared DNA  
was blunt end-repaired with T4 DNA polymerase and T4  
polynucleotide kinase. Adaptor oligonucleotides were  
ligated to the blunt ends in high molar excess. The  
adaptored DNA was purified and size-selected for a 9.5 to  
10.5 kb range using preparative agarose gel  
electrophoresis. Vector DNA was prepared from a derivative  
of pWD42 (gll4732114, gblAF129072.1), a copy-number  
inducible derivative of plasmid R1. The vector was ligated  
with adaptors complementary to the insert adaptors and  
purified. The sheared, adaptored mouse DNA was annealed to  
adaptored vector DNA, and transformed into  
chemically-competent E. coli XL10-Gold (Stratagene) cells  
and selected for ampicillin resistance."

BASE COUNT  
ORIGIN

3 a 15 c 18 g 8 t

Query Match

Best Local Similarity 0.7%; Score 13; DB 13; Length 44;

Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 312 cgggcgagaagc 324

Db 40 CGGCGAGAAGC 28

RESULT 40  
AZ480635/c

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

45 bp DNA GSS 04-OCT-2000  
1M0302M18F Mouse 10kb plasmid UUGCLM library Mus musculus genomic  
clone UUGCLM0302M18 F, DNA sequence.

AZ480635

AZ480635

AZ480635.1 GI:10641700

GSS.

house mouse

house mouse

Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE 1 (bases 1 to 45)  
 AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A., and Wright, D., Weiss, R.  
 TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
 JOURNAL Unpublished (2000)  
 COMMENT Contact: Robert B. Weiss  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: dunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0302 row: M column: 18  
 Seq primer: CGTTGTAAACGACGCCAGT  
 Class: plasmid ends  
 High quality sequence stop: 45.  
 Location/Qualifiers  
 1..45  
 /organism="Mus musculus"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC1M0302M18"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, Tl-resistant, F-"  
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (gi14732114|gb|AF129072.1), a copy-number inducible derivative of plasmid RI. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 10 a 12 c 12 g 11 t  
 ORIGIN

Query Match 0.7%; Score 13; DB 13; Length 45;  
 Best Local Similarity 100.0%; Pred. No. 2.2e+05;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 113 caccactgcctga 125  
 ||| ||||| |||||  
 Db 19 CACCACGCGCTGA 7

RESULT 41  
 AA730149  
 LOCUS AA730149 46 bp mRNA  
 DEFINITION nx38f03.s1 NCI-CGAP\_G04 Homo sapiens cDNA clone IMAGE:1258397 3', similar to TR:Q99544 Q99544 M-PHASE PHOSPHOPROTEIN 4; contains Alu repetitive element;; mRNA sequence.  
 ACCESSION AA730149  
 VERSION AA730149.1 GI:2751431  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 46)  
 AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index  
 JOURNAL Unpublished (1997)  
 COMMENT Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs-r@mail.nih.gov  
 Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael Emmert-Buck, M.D., Ph.D.  
 cDNA Library Preparation: M. Bento Soares, Ph.D.  
 DNA Library Arrayed by: Greg Lennon, Ph.D.  
 Clone Sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html  
 Insert Length: 704 Std Error: 0.00  
 Seq primer: -40ml3 fwd. ET from Amersham  
 High quality sequence stop: 1.  
 Location/Qualifiers  
 1..46  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone="IMAGE:1258397"  
 /clone\_lib="NCI-CGAP\_G04"  
 /tissue\_type="pooled germ cell tumors"  
 /lab\_host="DH10B"  
 /note="Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; 1st strand cDNA was prepared from 3 pooled germ cell tumors, and was then primed with a Not I - oligo(dT) primer. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library is normalized. Library was constructed by Bento Soares and M. Fatima Bonaldo."

BASE COUNT 14 a 11 c 12 g 9 g 12 t  
 ORIGIN

Query Match 0.7%; Score 13; DB 10; Length 46;  
 Best Local Similarity 100.0%; Pred. No. 2.2e+05;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 874 tcacaagggtcat 886  
 ||| ||||| |||||  
 Db 24 TCACAGGGTCAT 36

RESULT 42  
 AA902889  
 LOCUS AA902889 46 bp mRNA  
 DEFINITION oJ49g04.s1 NCI-CGAP\_K1d3 Homo sapiens cDNA clone IMAGE:1501686 3', similar to TR:Q29294 Q29294 ZINC FINGER PROTEIN ;, mRNA sequence.  
 ACCESSION AA902889  
 VERSION AA902889.1 GI:3038012  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 46)  
 AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index  
 JOURNAL Unpublished (1997)  
 COMMENT Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs-r@mail.nih.gov  
 Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D.  
 cDNA Library Preparation: M. Bento Soares, Ph.D.  
 cDNA Library Arrayed by: Greg Lennon, Ph.D.  
 DNA Sequencing by: Washington University Genome Sequencing Center

Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: [www-bio.llnl.gov/bbrp/image/image.html](http://www-bio.llnl.gov/bbrp/image/image.html)

Trace considered overall poor quality  
Insert Length: 1180 Std Error: 0.00  
Seq primer: -40m13 fwd. ET from Amersham  
High quality sequence stop: 1.

# FEATURES

source  
1. .46  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:1501686"  
/clone\_lib="NCI\_CGAP\_Kid3"  
/lab\_host="DH10B"  
/note="Organ: Kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site 1: Not I; Site 2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer, double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. mRNA source: 2 pooled kidneys. Library went through one round of normalization. Library constructed by Bento Soares and M. Fatima Bonaldo."  
11 a 19 c 13 g 3 t

# BASE COUNT

ORIGIN  
11 a 19 c 13 g 3 t

Query Match 0.7%; Score 13; DB 10; Length 46;  
Best Local Similarity 100.0%; Pred. No. 2.2e+05;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 310 caccggcgagag 322  
|||||  
Db 31 CACGGCGGAGAG 43

# RESULT '43

AI026096 46 bp mRNA EST 27-AUG-1998  
LOCUS ov94h09.s1 Soares\_testis\_NHT Homo sapiens cDNA clone IMAGE:1645025  
DEFINITION 3', similar to TR:Q62006 Q62006 OPA REPEAT ; contains element L1 repetitive element ;, mRNA sequence.  
ACCESSION AI026096  
VERSION AI026096.1 GI:3241709  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
AUTHORS National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index  
JOURNAL Unpublished (1997)  
COMMENT Contact: Robert Strausberg, Ph.D.  
Email: [cgapbs-r@mail.nih.gov](mailto:cgapbs-r@mail.nih.gov)  
CDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima Bonaldo, Ph.D.  
CDNA Library Arrayed by: Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: [www-bio.llnl.gov/bbrp/image/image.html](http://www-bio.llnl.gov/bbrp/image/image.html)

Trace considered overall poor quality  
Insert Length: 1791 Std Error: 0.00  
Seq primer: -40m13 fwd. ET from Amersham  
High quality sequence stop: 1.  
Location/Qualifiers  
1. .46  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"

# FEATURES

source  
1. .46  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"

/clone="IMAGE:1645025"  
/clone\_lib="Soares\_testis\_NHT"  
/sex="male"

/lab\_host="DH10B"  
/note="Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site 1: Not I; Site 2: Eco RI; 1st strand cDNA was prepared from mRNA obtained from Clontech Laboratories, Inc., and primed with a Not I - oligo(dT) primer [5', TGTTACCAATCTGAATGGGAGCGGCCCAATTTTTTTTTTTT 3']. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library went through one round of normalization to Cot5, and was constructed by Bento Soares and M. Fatima Bonaldo."  
7 a 6 c 18 g 15 t

# BASE COUNT

ORIGIN  
7 a 6 c 18 g 15 t

Query Match 0.7%; Score 13; DB 10; Length 46;  
Best Local Similarity 100.0%; Pred. No. 2.2e+05;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 496 gtggctgggtatt 508  
|||||  
Db 10 GTGGCTGGGTATT 22

# RESULT 44

AI264859 46 bp mRNA EST 03-FEB-1999  
LOCUS qx66hl2.x1 NCI\_CGAP\_Ov36 Homo sapiens cDNA clone IMAGE:2006375 3', similar to SW:NHPX\_HUMAN P55769 NHP2/RS6 FAMILY PROTEIN YEL026W  
DEFINITION HOMOLOG ;, mRNA sequence.  
ACCESSION AI264859  
VERSION AI264859.1 GI:3873062  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
AUTHORS National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index  
JOURNAL Unpublished (1997)  
COMMENT Contact: Robert Strausberg, Ph.D.  
Email: [cgapbs-r@mail.nih.gov](mailto:cgapbs-r@mail.nih.gov)  
CDNA Library Preparation: David B. Krizman, Ph.D.  
CDNA Library Arrayed by: I.M.A.G.E. Consortium, LLNL  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: [www-bio.llnl.gov/bbrp/image/image.html](http://www-bio.llnl.gov/bbrp/image/image.html)

Trace considered overall poor quality  
Insert Length: 200 Std Error: 0.00  
Seq primer: -40UP from Gibco  
High quality sequence stop: 1.  
Location/Qualifiers  
1. .46  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:2006375"  
/clone\_lib="NCI\_CGAP\_Ov36"  
/sex="female"  
/tissue\_type="borderline ovarian carcinoma"  
/dev\_stage="adult"  
/lab\_host="DH10B"  
/note="Organ: Ovary; Vector: pAMP1; mRNA made from borderline ovarian carcinoma, cDNA made by oligo-dT priming. Directionally cloned. Size-selected on agarose gel. average insert size 500 bp. Primary library, non-amplified."

# FEATURES

source

BASE COUNT 10 a 12 c 12 g 12 t  
ORIGIN

Query Match 0.7%; Score 13; DB 10; Length 46;  
Best Local Similarity 100.0%; Pred. No. 2.2e+05;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1156 cctcaagatgcc 1168  
Db 14 CCTCAAGATGCC 26

RESULT 45  
AI439347/c  
LOCUS AI439347 46 bp mRNA EST 30-MAR-1999  
DEFINITION t154f06.x1 NCI\_CGAP\_Lym12 Homo sapiens cDNA clone IMAGE:2134307 3',  
similar to TR:Q13539 Q13539 MARINER TRANSPOSASE. ; , mRNA sequence.  
ACCESSION AI439347  
VERSION AI439347  
KEYWORDS AI439347.1 GI:4303686  
SOURCE EST.  
human.

ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE 1 (bases 1 to 46)  
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene Index  
JOURNAL Unpublished (1997)  
COMMENT Contact: Robert Strausberg, Ph.D.  
Email: cgaps-r@mail.nih.gov  
Life Technologies catalog #: 11547-015  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
www-bio.llnl.gov/bbrp/image/image.html  
Insert Length: 1143 Std Error: 0.00  
Seq primer: -40Up from Gibco  
High quality sequence stop: 1.  
Location/Qualifiers  
1..46

FEATURES  
source  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:2134307"  
/clone\_lib="NCI\_CGAP\_Lym12"  
/tissue\_type="lymphoma, follicular mixed small and large  
cell"  
/lab\_host="DH10B"  
/note="Organ: lymph node; Vector: pCMV-SPORT6; Site: 1;  
SalI; Site\_2: NotI; Cloned unidirectionally. primer:  
Oligo dt. Average insert size 1.25 kb. Life Technologies  
catalog #: 11547-015"  
BASE COUNT 18 a 8 c 7 g 13 t  
ORIGIN

Query Match 0.7%; Score 13; DB 10; Length 46;  
Best Local Similarity 100.0%; Pred. No. 2.2e+05;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1258 agcttacacattt 1270  
Db 29 AGCTTACACATT 17

Search completed: April 20, 2002, 00:25:44  
Job time: 9048 sec